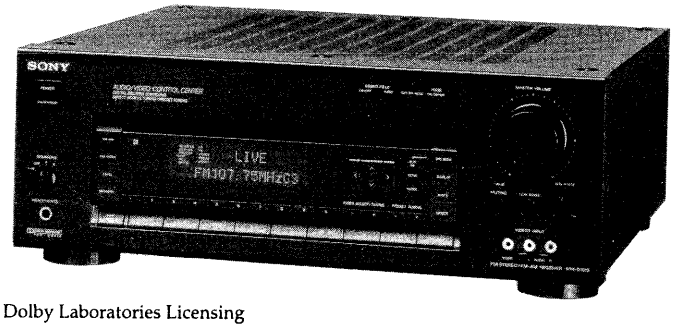
STR-D1015

SERVICE MANUAL

US Model
Canadian Model
E Model



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SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 120 watts per channel minimum RMS power, with no more than 0.15 % total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

Continuous RMS power output (8 ohms, at 20 Hz - 20 KHz (US, Canadian model), 1kHz (E model) less than 0.15 % total harmonic distortion) (FRONT)

123 W + 123 W

Surround mode

Surround mode (8 ohms at 1 kHz, THD 0.8 %)

FRONT: 100 W/ch
CENTER*: 100 W
REAR: 25 W

* (only in theDOLBY SUR and THEATER modes)

Dynamic power output
165 W + 165 W (8 ohms)
260 W + 260 W (4 ohms)

Harmonic distortion at rated output
Less than 0.15 %

Frequency response
PHONO: RIAA equalization curve
±0.5 dB
CD, DAT/MD, TAPE MONITOR, VIDEO 1 ,2, 3: 10 Hz – 50 kHz $^{0}_{-1}$ dB

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna terminals	75 ohms, unbalanced
Sensitivity (at 50 dB):	18.3 dBf, 4.5 µV (mono)
	38.3 dBf, 45 µV (stereo)
Usable sensitivity	11.2 dBf, 2 µV (IHF)
S/N	Mono: 76 dB
	Stereo: 70 dB
Harmonic distortion at 1 kHz	
	Mono: 0.3 %
	Stereo: 0.5 %
Separation	45 dB at 1 kHz
Frequency response	30 Hz – 15 kHz $^{+0.5}_{-2}$ dB
Selectivity	60 dB at 400 kHz

AM tuner section

Tuning range	530 – 1710 kHz (with 10 kHz interval*)
	531 – 1710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)

* You can change the AM tuning interval to 9 kHz. After tuning in any AM tuning in any AM station, turn off the power of receiver once. While holding down the TUNING + button, press the POWER switch. When you change the interval, all the preset stations will be erased. To reset the interval, repeat the same procedure.

Video section

Inputs	VIDEO 1,2,3:
	1 Vp-p 75 ohms
Outputs	VIDEO 1, 2, MONITOR:
	1 Vp-p 75 ohms

General

System	Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section	Low-noise NF type equalizer
	Power amplifier section: Pure-complimentary SEPP
Power requirements	USA, Canadian model: 120 V AC, 60 Hz
	E model: 120/220/240 V AC, 50/60 Hz
Power consumption (in standby condition: 5W)	
	USA model: 220 W
	Canadian model: 310 W
	E model: 280 W
AC outlets	Two switched, total 120 W
Dimensions	430 x 160 x 425 mm (17 x 6 $^{1}/_{4}$ x 16 $^{3}/_{4}$ inches)
Mass	13.1 kg (28 lb 14 oz)
Supplied accessories	FM wire antenna (1)
	AM loop antenna (1)
	Remote commander (1)
	Sony Batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

Inputs

	Sensitivity	Impedance	S/N Short A Net/'78 IHF A Net
PHONO (MM)	2.5 mV	50 kilohms	75 dB/75 dB
CD	300 mV	50 kilohms	82 dB/82 dB
DAT/MD, TV, LD, VIDEO 1, 2, 3, TAPE MONITOR	250 mV	50 kilohms	82 dB/82 dB

Outputs

REC OUT VIDEO 1, 2 (AUDIO) OUT	Voltage 250 mV Impedance 10 kilohms
HEADPHONES	Accepts low and high impedance headphones

MUTING	–20 dB
LOW BOOST	+10 dB at 70 Hz
TONE	±8 dB at 100 Hz and 10 kHz

使用時は添付資料も参照のこと
Refer to the additional documents.

FM STEREO FM-AM RECEIVER

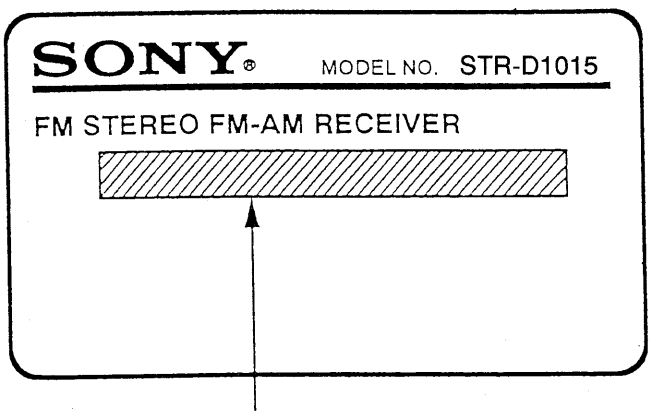
SONY®

TABLE OF CONTENTS

Section	Title	Page
1.	SERVICING NOTE	3
2.	GENERAL	4
3.	DIAGRAMS	
3-1.	Circuit Boards Location	7
3-2.	Semiconductor Lead Layouts	9
3-3.	Block Diagram	11
3-4.	Printed Wiring Board — Surround Section —	15
3-5.	Schematic Diagram — Surround Section —	19
3-6.	Schematic Diagram — Main Section —	24
3-7.	Printed Wiring Boards — Main Section —	29
3-8.	Printed Wiring Boards — Display Section —	34
3-9.	Schematic Diagram — Display Section —	36
3-10.	IC Pin Functions	
	• IC106 (TC9174P) LED Driver	40
	• IC202 ((μPD75518GF-195-3B9) Main Controller	41
4.	EXPLODED VIEWS	
4-1.	Front Panel Section	43
4-2.	Back Panel Section	44
4-3.	Power Transformer Section	45
5.	ELECTRICAL PARTS LIST	46

MODEL IDENTIFICATION

— Specification Label —



US model : AC 120V 60Hz 220W
Canadian model : AC 120V 60Hz 310VA
E model : AC 120/220/240V~50/60Hz 280W

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

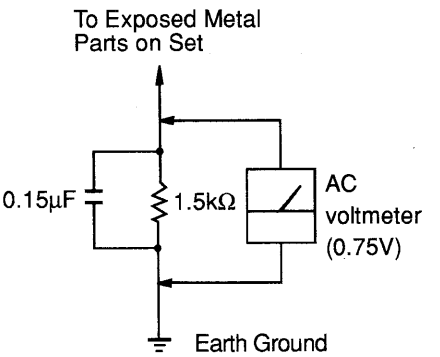


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTE

CHECK MODE The movement check of the set as follows :

SUBJECT	WITH WHAT HELD DOWN	WHAT IS OPERATED	WHAT FUNCTION IS PERFORMED
ALL CLEAR	10 KEY [4], [5], [6]	POWER ON	Initialize

ALL CLEAR
When ten-keys [4], [5] and [6] key are pressed simultaneously and the power is turned on, all the RAMs are cleared and initialized.

◎Initial Operation Set State(1)

FUNCTION	TUNER	FM 87.50MHz(AM 530kHz)
		FM MODE AUTO
		TUNING LEVEL LOW
		INDEX NO INDEX (.....)
		PRESET NO. None(A_)
MONITOR	VIDEO 1	
TAPE MONITOR	OFF	
LOW BOOST	OFF	
MUTING (–20dB)	OFF	
CURSOR MODE	SUR	
SOUND FIELD	OFF	
TONE	DEFEAT	
FUNC. INDEX NAME	SAME FUNC. NAME	
TEST TONE	OFF	
DISPLAY MODE	NORMAL	
LAST S.F.MODE	ACOUSTIC	

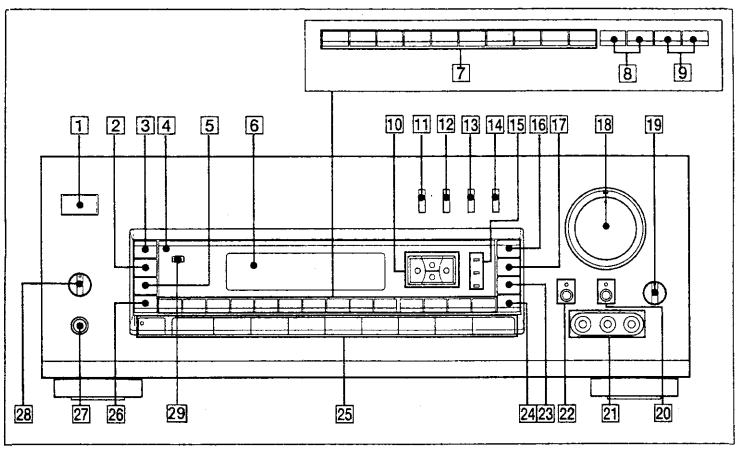
◎Initial Operation Set State (2 : Sound Field)

HALL	BASS(dB)	+2
	TREBLE(dB)	0
	DELAY TIME(ms)	30
	REAR LEVEL(dB)	0
DANCE	BASS(dB)	+8
	TREBLE(dB)	+6
	DELAY TIME(ms)	20
	REAR LEVEL(dB)	0
LIVE	BASS(dB)	+2
	TREBLE(dB)	+4
	DELAY TIME(ms)	30
	REAR LEVEL(dB)	0
DOLBY SURROUND	BASS(dB)	0
	TREBLE(dB)	0
	DELAY TIME(ms)	15
	REAR LEVEL(dB)	0
	CENTER LEVEL(dB)	0
	CENTER MODE	PHANTOM
THEATER	BASS(dB)	+4
	TREBLE(dB)	-4
	DELAY TIME(ms)	15
	REAR LEVEL(dB)	0
	CENTER LEVEL(dB)	0
	CENTER MODE	PHANTOM
ACOUSTIC	BASS(dB)	0
	TREBLE(dB)	0

SECTION 2
GENERAL

This section is extracted from instruction manual.

Front Panel



1 **POWER switch**

2 **FM MODE button** (See page 15.)

3 **FM/AM button** (See pages 15, 16.)

4 **Remote sensor**

5 **LEVEL button** (See page 16.)

6 **Display window**

7 **Numeric buttons** (See pages 15, 16, 17.)

8 **INDEX SELECT/TUNING +/– buttons** (See pages 16, 22.)

9 **PRESET TUNING +/– buttons** (See pages 17, 23.)

9 **DIGITAL PROCESSING CONTROL buttons** (See pages 22, 23, 28, 29, 31.)

11 **SOUND FIELD ON/OFF button** (See pages 19, 28, 29, 31, 32.)

12 **SOUND FIELD MODE button** (See pages 19, 28, 29, 31, 32.)

13 **CENTER MODE button** (See pages 27, 28.)

14 **TONE ON/DEFEAT button** (See pages 31, 32.)

15 **DPC MODE indicators** (See pages 22, 23, 29, 31.)

16 **DPC MODE button** (See pages 22, 23, 28, 29, 31.)

17 **DISPLAY button** (See pages 16, 23.)

18 **MASTER VOLUME control** (See page 11.)

19 **BALANCE control** (See page 11.)

20 **LOW BOOST button and indicator** (See page 11.)

21 **VIDEO 3 INPUT jacks**

22 **MUTING –20 dB button and indicator** (See page 11.)

23 **SHIFT button** (See pages 16, 17.)

24 **DIRECT button** (See page 15.)

25 **Function selectors and TAPE MONITOR button and indicator** (See pages 10, 11, 20, 21, 23.)

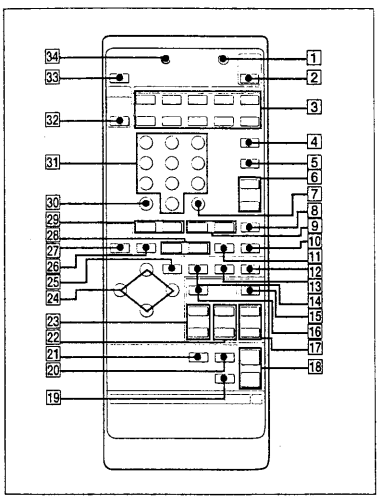
26 **MEMORY button** (See page 16.)

27 **HEADPHONES jack**

28 **SPEAKERS selector** (See page 11.)

29 **STANDBY indicator**
(The STANDBY indicator lights up when the power cord is connected : E model only)

Remote Control



1 **LEARN button** (See pages 25, 26)

2 **SYSTEM OFF button** (See pages 12)

3 **SYSTEM CONTROL/FUNCTION TAPE, DAT/MD, CD, TUNER, PHONO, VIDEO 1, VIDEO 2, VIDEO 3, LD, TV buttons** (See pages 10, 11, 12, 13, 26)

4 **VISUAL POWER button** (See pages 12, 13)

5 **TV/VIDEO, INDEX button** (See pages 12, 13)

6 **CH (channel)/PRESET +/– buttons** (See pages 12, 13)

7 **RMS (random music sensor)/START, ENTER button** (See pages 12, 13)

8 **ANT (antenna) TV/VTR, D (disc) SKIP button** (See pages 12, 13)

9 **⏮, ⏭ (AMS: Automatic Music Sensor) buttons** (See pages 12, 13)

10 **● (recording) button** (See pages 12, 13, 26)

11 **II (pause) button** (See pages 12, 13)

12 **EQ (equalizer) /TONE ON/OFF button** (See pages 31)

13 **EQ (equalizer) SLOPE button***

14 **EQ (equalizer) BAND button***

15 **SOUND FIELD ON/OFF button** (See pages 19, 28, 29, 31, 32)

16 **T. TONE button** (See page 28)

17 **SOUND FIELD MODE +/– buttons** (See pages 19, 28, 29, 31, 32)

18 **MASTER VOL +/– buttons** (See pages 11, 28)

19 **MUTING button** (See page 11)

20 **LOW BOOST button** (See page 11)

21 **DIRECT (PASS) button***

22 **CENTER LEVEL +/– buttons** (See page 28)

23 **REAR LEVEL +/– buttons** (See page 28)

24 **DIGITAL PROCESSING CONTROL buttons** (See pages 22, 23, 24, 28, 29, 31)

25 **DPC (Digital Processing Control) MODE button** (See pages 22, 23, 29, 31)

26 **RMS (Random Music Sensor) CLEAR, ■ button** (See pages 12, 13)

27 **BACK GROUND button** (See pages 13, 26)

28 **◄ (forward play), ► (play), RMS (Random Music Sensor) DIRECTION buttons** (See pages 12, 13, 26)

29 **◄◄, ►► (seach)button** (See pages 12, 13)

30 **> 10 (over 10), SHIFT button** (See pages 12, 16, 17)

31 **Numeric buttons (1 to 0)** (See pages 12, 14, 15, 17)

32 **TV CONTROL ON button** (See pages 12, 13)

33 **SLEEP button** (See page 24)

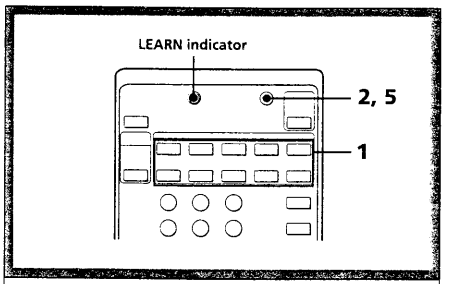
34 **LEARN indicator** (See pages 25, 26)

* Can not be used with this unit.

Programming Signals for Non-Sony Components

Once this remote learns the signals of the other components, you can use other non-Sony components as part of your system. Also if any of your other Sony components fail to operate with this remote, use this programming function. Your remote can "learn" only the signals from remotes that are infrared wireless remotes. Before you program signals, make sure that the two remotes:

- face straight each other (as shown in step 3 below)
- are placed at a distance of approximately 2 inches (5 cm)
- are not moved during programming

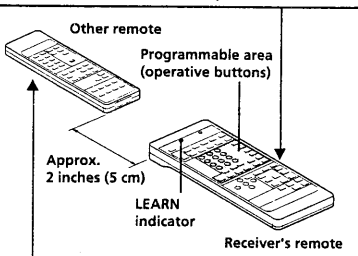


1 **Press the FUNCTION button of the component to be programmed.**
For example, if you want to program a CD player's remote control, press CD.

2 **Press the LEARN button with a ball-point pen, etc., so that the indicator lights up.**

3 **Program a signal.**

① On this receiver's remote, press the button that is to "learn" the signal from the other remote until the LEARN indicator blinks slowly.



② On the other remote, hold down the button you want the receiver's remote to "learn."

③ Remove your finger(s) from the button(s) after the LEARN indicator on this remote lights up.

Note
You can program only specific buttons for specific components. See "Operative Buttons" on pages 12 and 13 for a list of the buttons that can be programmed for each component type. If you press a button that cannot be programmed in step ①, the LEARN indicator blinks rapidly.

4 **Repeat step 3 for other buttons that you want to program.**

5 **Press the LEARN button with a ball-point pen, etc.**
The LEARN indicator lights for a few seconds. After the indicator goes off, you can control other components with the programmed buttons.

Note
If you do not perform the next operation in about one minute after steps 2 and 3-①, the learning mode will be canceled. If this happens, start again at step 1.

After programming
Be sure to test that the component really works with the programmed signals.

How many signals can you store in memory?
You can store approximately 60 signals, depending on the format of the signal being used.

Memory capacity
If the LEARN indicator does not blink or light in step 3-① or ③, this indicates that the memory capacity is full. In this case, clear the signal stored in that button following the procedure described in "To clear a programmed signal" and program again from the beginning. When programming, avoid the following conditions.

- Placing the remotes too far apart from each other.
- Exposing the remotes to intense light such as of invertor fluorescent lamp.
- Receiving infrared signals of another appliance's remote.

Notes on programming

- Remote control signals of components of manufacturers other than Sony can be programmed only when they are compatible with the infrared wireless remote control system. Since the programmable remote can "learn" only the signals output from another remote, it cannot control components that do not use a remote.
- Do not attempt to use the programmable remote with an air conditioner or other household appliance.
- Note that there are some special remote control signals that cannot be programmed.
- The SYSTEM CONTROL/FUNCTION button of this remote does not work for the other components even if their signals are programmed.

Programming a New Signal onto a Previously Programmed Button

Follow the programming procedure described on page 25. The previously programmed signal is cleared and replaced by the new signal.

To clear a programmed signal

1 Press the LEARN button with a ball-point pen, etc., so that the LEARN indicator lights up.
2 Press the button to be cleared while pressing the BACKGROUND button until the LEARN indicator goes off.

To program a signal onto the ● button for recording

It is not possible to operate any component with only the ● button. You have to program the record standby signal and record start signal under the ● + ► button on the receiver's remote. With a tape deck, you can also program the signal under the ● + ◄ button (in the reverse direction).

Notes on batteries

If the LEARN indicator does not light when a button is pressed, this means that the batteries are low.
When the batteries are low, the remote can no longer operate the unit and programming becomes impossible.
If this happens, replace both batteries with new ones. We recommend you use alkaline batteries for extended use.

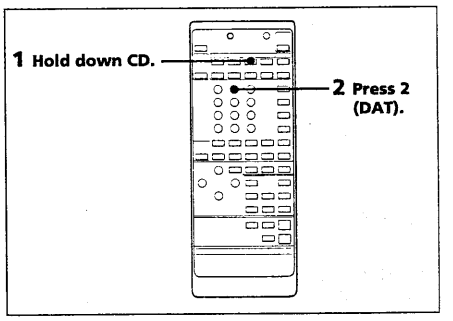
Changing the Settings of the FUNCTION Buttons

The FUNCTION buttons are preset to operate only specific components. (The CD button operates only the CD player.) However, if you want to use different components, you can change the presets to control these different components. For example, if you connect a DAT deck to the CD IN jacks, you can operate the DAT deck with the CD FUNCTION button by changing the preset function to the DAT function.

To change the settings of the FUNCTION buttons

1 Hold down the FUNCTION button that you want to change.
2 Press one of the numeric (0 to 9) buttons to select a new component.

Example: To change the CD FUNCTION button to operate a DAT deck, press 2 (for the DAT deck) while holding down the CD button.



Notes

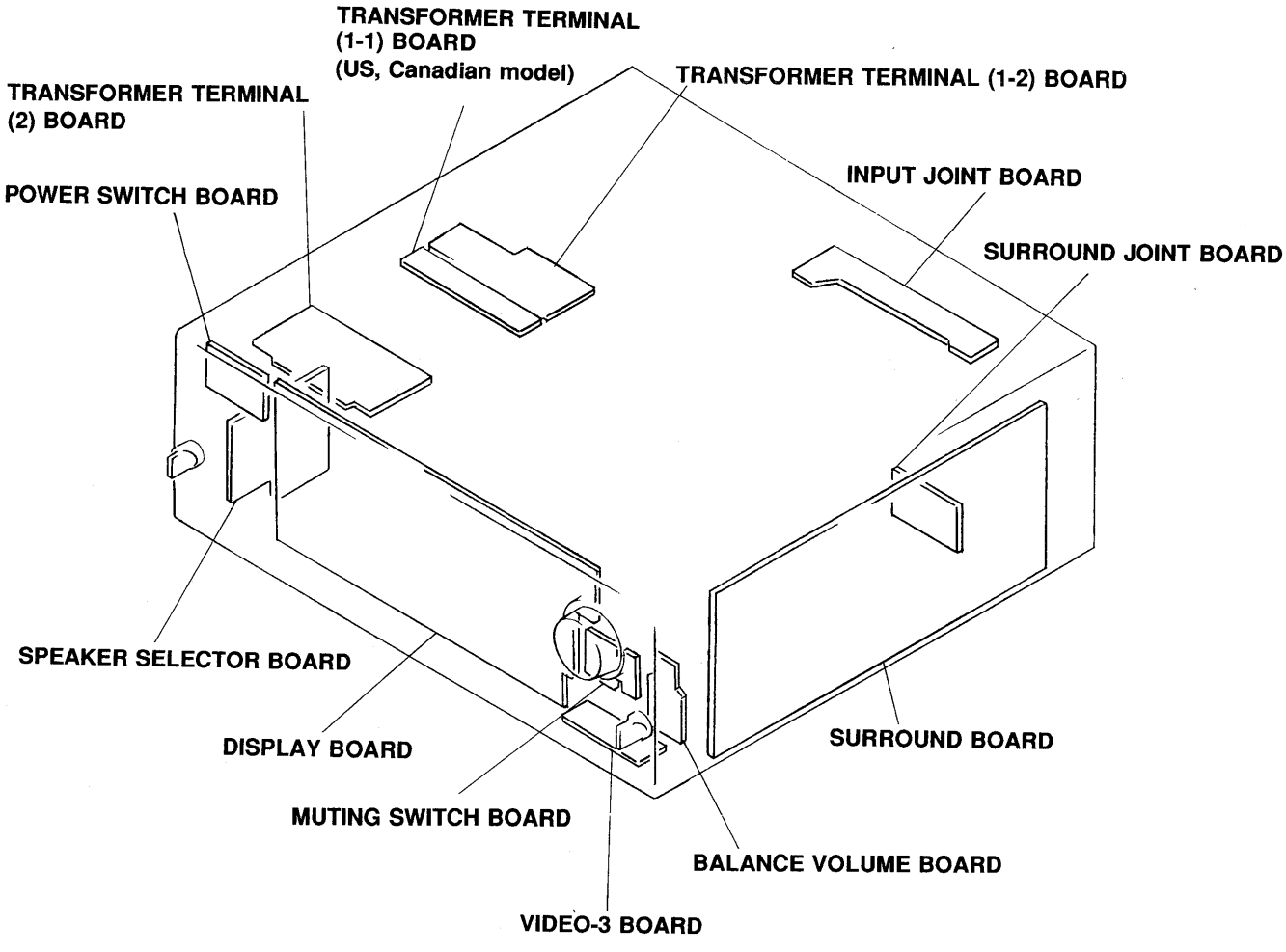
- The settings of the TUNER button and the PHONO button cannot be changed.
- To change the FUNCTION buttons back to their original preset, perform these procedures again.

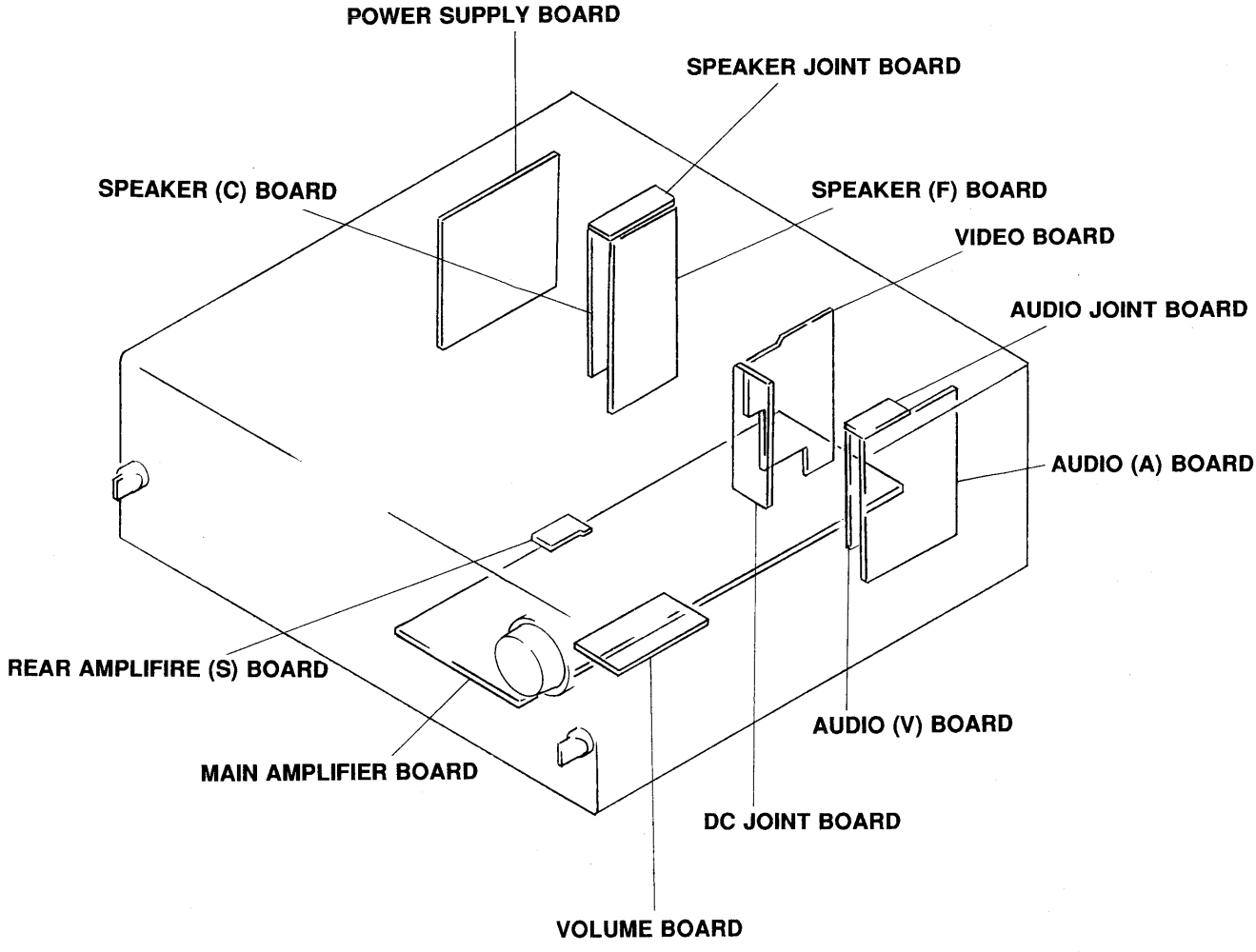
With the numeric buttons (0 to 9), each function can be selected as described in the following table:

The function to be selected	Numeric buttons
TV	0
CD player	1
DAT deck	2
MD recorder	3
DECK A	4
DECK B	5
LD player	6
VCR 1 (Remote control mode)	7
VCR 2 (Remote control mode)	8
VCR 3 (Remote control mode)	9

SECTION 3
DIAGRAMS

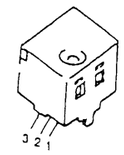
3-1. CIRCUIT BOARDS LOCATION



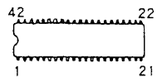

POWER SUPPLY BOARD
SPEAKER JOINT BOARD
SPEAKER (C) BOARD
SPEAKER (F) BOARD
VIDEO BOARD
AUDIO JOINT BOARD
AUDIO (A) BOARD
REAR AMPLIFIRE (S) BOARD
AUDIO (V) BOARD
MAIN AMPLIFIER BOARD
DC JOINT BOARD
VOLUME BOARD

3-2. SEMICONDUCTOR LEAD LAYOUTS

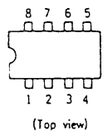
GP1U58XB



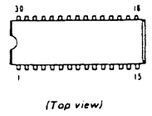
LA2785



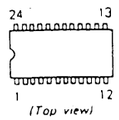
LB1639
M5218AP



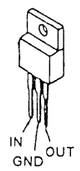
LC7822



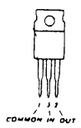
LV1010N



M5F78M05L
TA78M12S

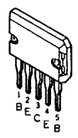


M5F79M12L

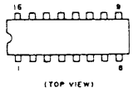


M5218AL

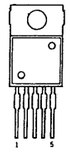
NE-N250
NE-P250



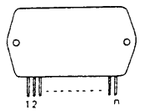
PC74HC237
SN74HC151AN
SN761200N
TC9184P



SI-18752-LM

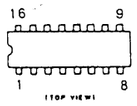


STK350-130A

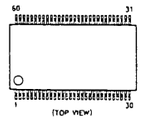


STK-3122-3

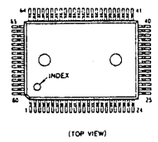
TC9174P



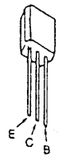
TD62C950RF



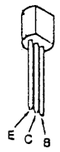
uPD75518GF-195-3B9



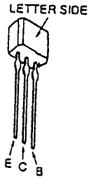
DTA114ES
DTA124ES
DTC114ES
DTC124ES
2SC2785-FEK
2SC3623A-LK



2SA988-PAFAEA



2SA1175-HFE

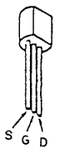


2SC1845-EA

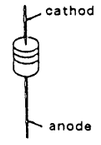
2SC4495
2SD2012

2SD774-34
2SD809-K

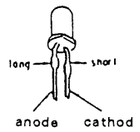
2SK246-GR3



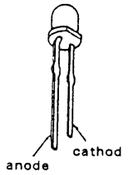
HZS4ALL
HZS6C3L
UZL-9H3
UZL-36H
UZP-5.6B
11ES2-NTA2B



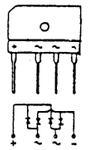
SEL2210S-TH10



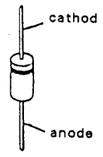
SEL2810A

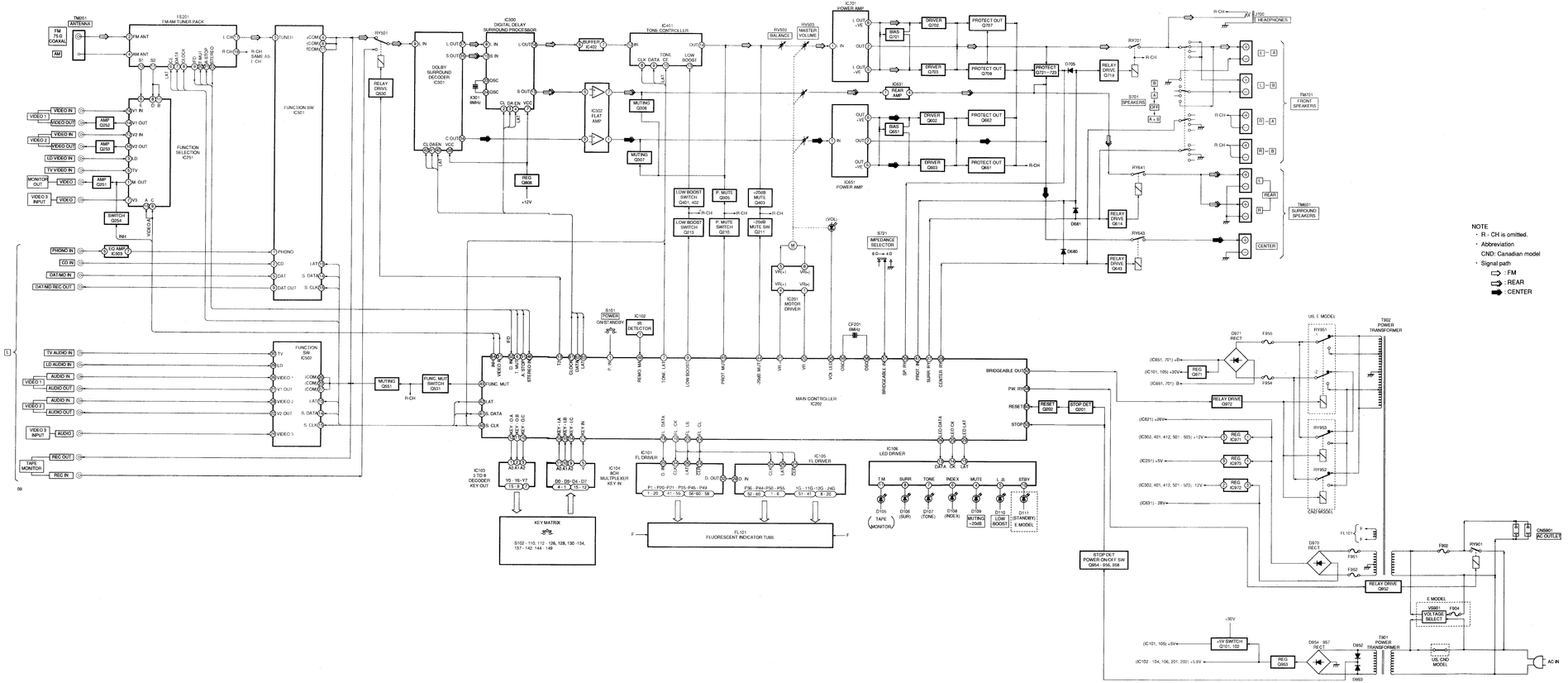


RBA-402
RBV-602-01



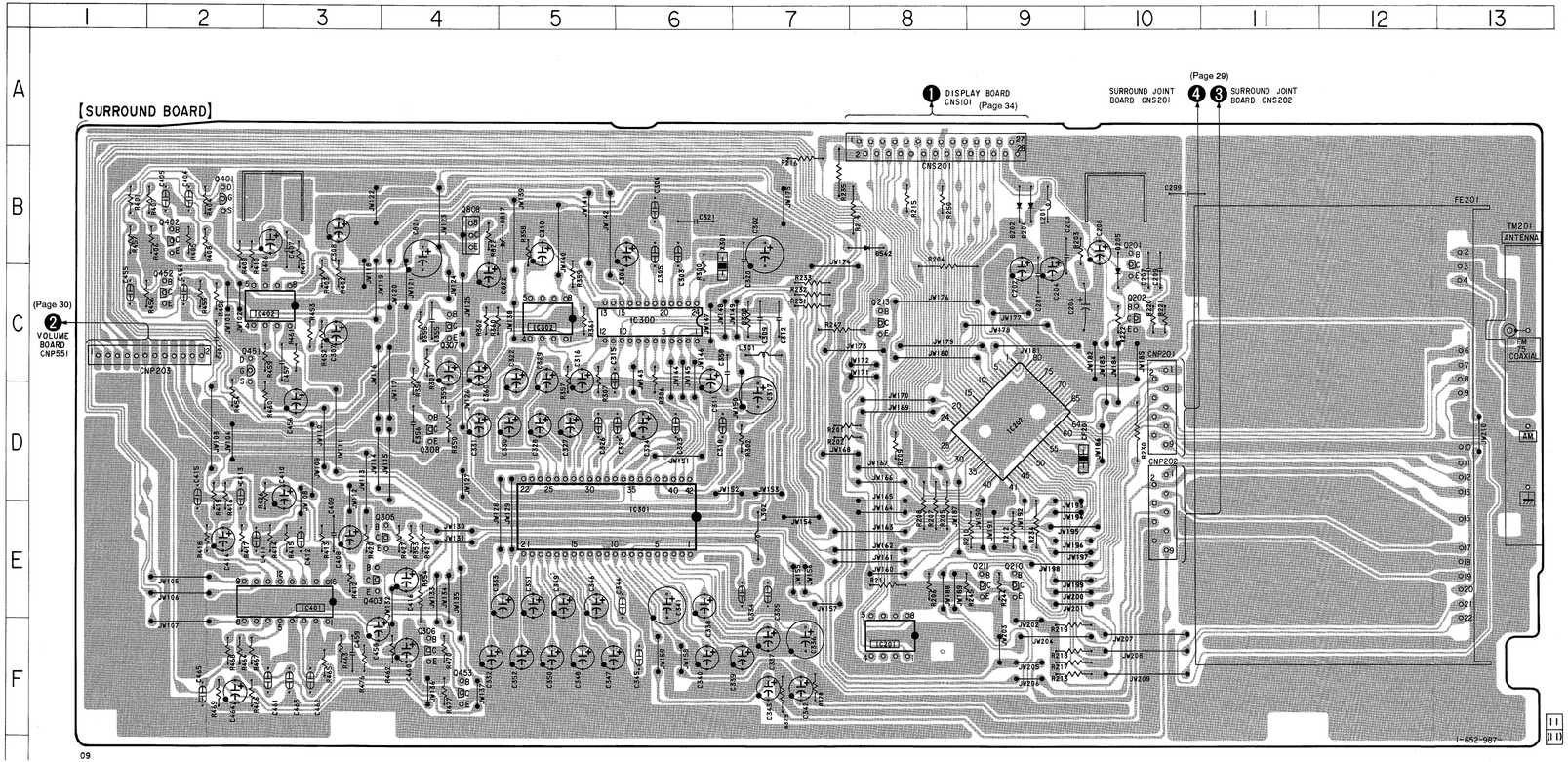
1S1585
1N4148M




TM001 ANTENNA
FM 75Ω COAXIAL
AM
FE201 FM-AM TUNER PACK
FM ANT
AM ANT
R-CH SAME AS I-CH
TUNER
FUNCTION SW IC501
FUNCTION SELECTION IC551
VIDEO 1
VIDEO 2
VIDEO 3
LD VIDEO IN
TV VIDEO IN
MONITOR OUT
VIDEO 3 INPUT
SWITCH Q554
AMP Q552
AMP Q553
AMP Q551
PHONO IN
CD IN
DAT/MD IN
DAT/MD REC OUT
EQ AMP IC503
PHONO
CD
DAT
DAT OUT
TV AUDIO IN
LD AUDIO IN
AUDIO IN
AUDIO OUT
AUDIO
REC OUT
TAPE MONITOR
REG IN
RY501
RELAY DRIVE Q605
IC300 DIGITAL DELAY SURROUND PROCESSOR
DOLBY SURROUND DECODER IC301
X301 8MHz
REG Q606
+12V
IC303 FLAT AMP
BUFFER IC402
IC401 TONE CONTROLLER
MUTING Q208
MUTING Q207
RY502 BALANCE
RY503 MASTER VOLUME
IC702 POWER AMP
IC651 POWER AMP
IC631 REAR AMP
BIAS Q701
BIAS Q651
DRIVER Q702
DRIVER Q703
DRIVER Q602
DRIVER Q603
PROTECT OUT Q707
PROTECT OUT Q708
PROTECT OUT Q662
PROTECT OUT Q661
PROTECT Q721~724
D705
RELAY DRIVE Q719
RY701
S701 SPEAKERS
J702 HEADPHONES
TM701 FRONT SPEAKERS
RY641
RELAY DRIVE Q614
RELAY DRIVE Q643
D681
D680
TM601 SURROUND SPEAKERS
CENTER
LOW BOOST SWITCH Q401, 402
LOW BOOST SWITCH Q213
P. MUTE Q205
P. MUTE SWITCH Q210
-20dB MUTE Q403
-20dB MUTE SW Q211
R-CH
(VOL)
S731 IMPEDANCE SELECTOR
8Ω → 4Ω
IC201 MOTOR DRIVER
CF201 6MHz
S101 POWER ON/STANDBY
IC102 IR DETECTOR
MUTING Q551
FUNC. MUT SWITCH Q531
FUNC. MUT
MAIN CONTROLLER IC202
BRIDGEABLE OUT
PW. RY-D
RESET
STOP
RESET Q202
STOP DET Q201
IC103 3-TO-8 DECODER KEY OUT
IC104 8CH MULTIPLEXER KEY IN
KEY MATRIX
S102 - 110, 112 - 126, 128, 130 - 154, 137 - 142, 144 - 149
IC101 FL DRIVER
IC105 FL DRIVER
IC106 LED DRIVER
FL101 FLUORESCENT INDICATOR TUBE
D105 TAPE MONITOR
D106 SURR
D107 TONE
D108 INDEX
D109 MUTING -20dB
D110 LOW BOOST
D111 STANDBY/E MODEL
STOP DET POWER ON/OFF SW Q954 - 956, 958
US, E MODEL
T902 POWER TRANSFORMER
D971 RECT
F955
F954
REG Q971
RELAY DRIVE Q972
RY951
RY953
RY952
REG IC971
REG IC975
REG IC973
CN5901 AC OUTLET
F902
RY901
F903
F904
F901
F902
D970 RECT
RELAY DRIVE Q952
E MODEL
VOLTAGE SELECT
US, CND MODEL
T901 POWER TRANSFORMER
AC IN
+30V
+5V SWITCH Q101, 102
REG Q953
D954 - 957 RECT
D952
D953
NOTE
- R - CH is omitted.
- Abbreviation
CND: Canadian model
- Signal path
: FM
: REAR
: CENTER

3-4. PRINTED WIRING BOARD — SURROUND SECTION —

- See page 7 for Circuit Boards Location.
- See page 9 for Semiconductor Lead Layouts.



- **Semiconductor Location**

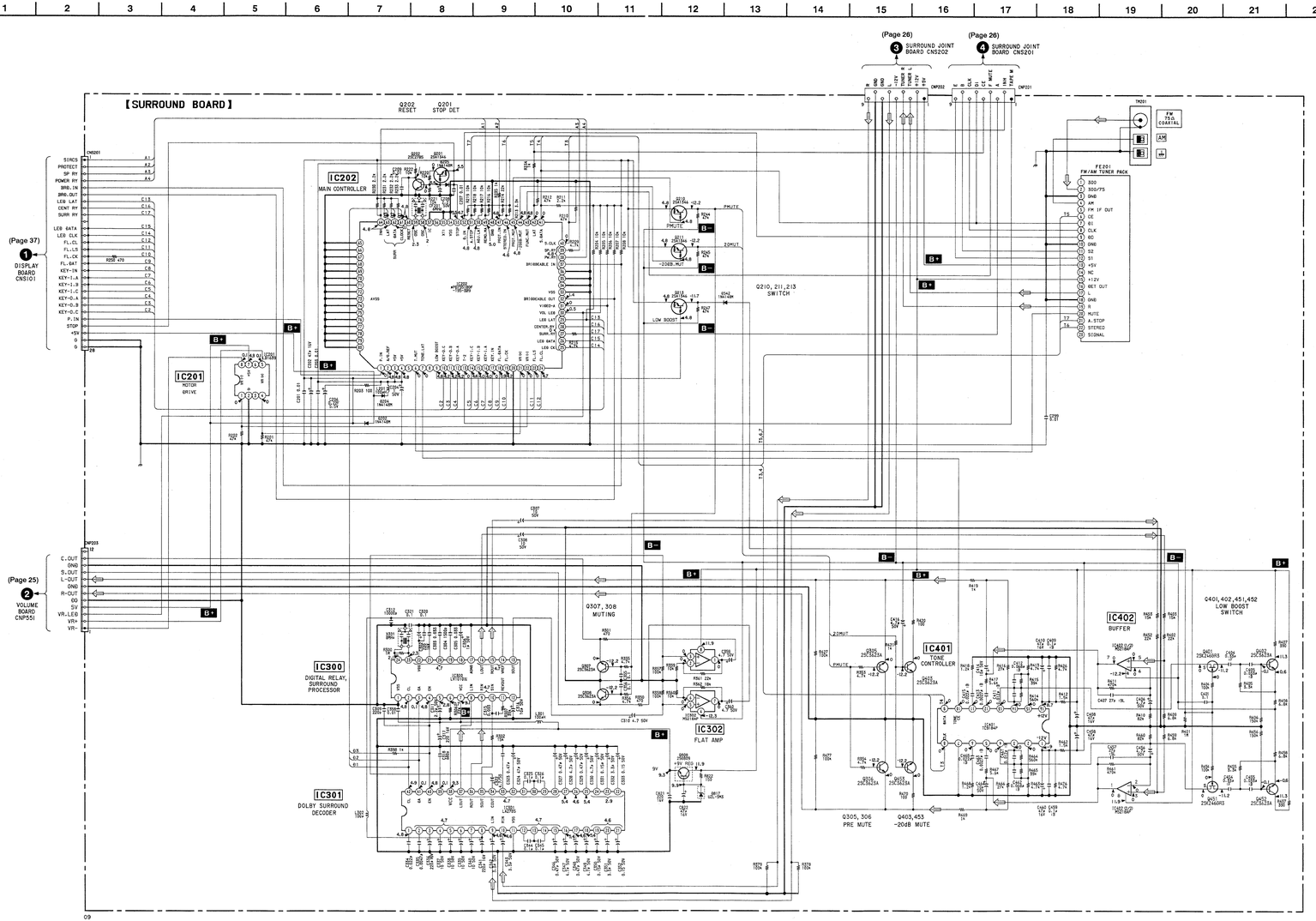
Ref. No.	Location
D202	B-9
D204	B-9
D205	B-10
D542	B-8
D817	B-5
IC201	F-8
IC202	D-9
IC300	C-6
IC301	E-6
IC302	C-5
IC401	E-3
IC402	C-3
Q201	B-10
Q202	C-10
Q210	E-9
Q211	E-9
Q213	C-8
Q305	E-4
Q306	F-4
Q307	C-4
Q308	D-4
Q401	B-2
Q402	B-2
Q403	E-3
Q451	C-2
Q452	C-2
Q453	F-4
Q808	B-4

Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.

3-5. SCHEMATIC DIAGRAM — SURROUND SECTION —

• See page 41 for IC Pin Functions. (IC202)

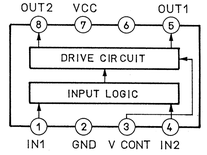


Note:

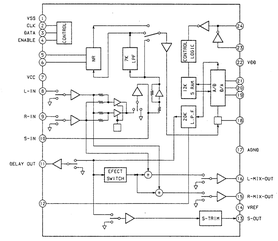
- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- [ ] : panel designation.
- **B+** : B+ Line
- **B−** : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

• **IC Block Diagrams.**

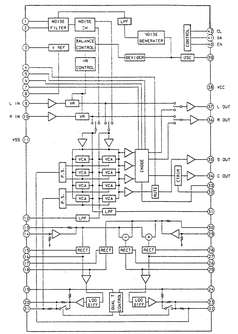
IC201 LB1639



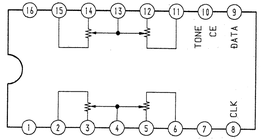
IC300 LV1010N



IC301 LA2785



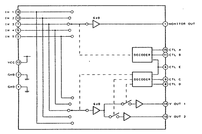
IC401 TC9184P



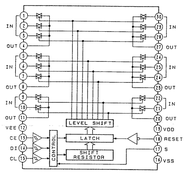
3-6. SCHEMATIC DIAGRAM — MAIN SECTION —

- **IC Block Diagrams.**

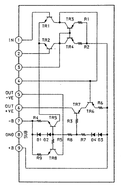
IC251 SN761200N



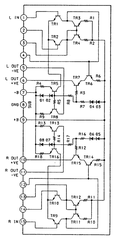
IC501, 502 LC7822



IC651 STK350-130



IC701 STK3122-3

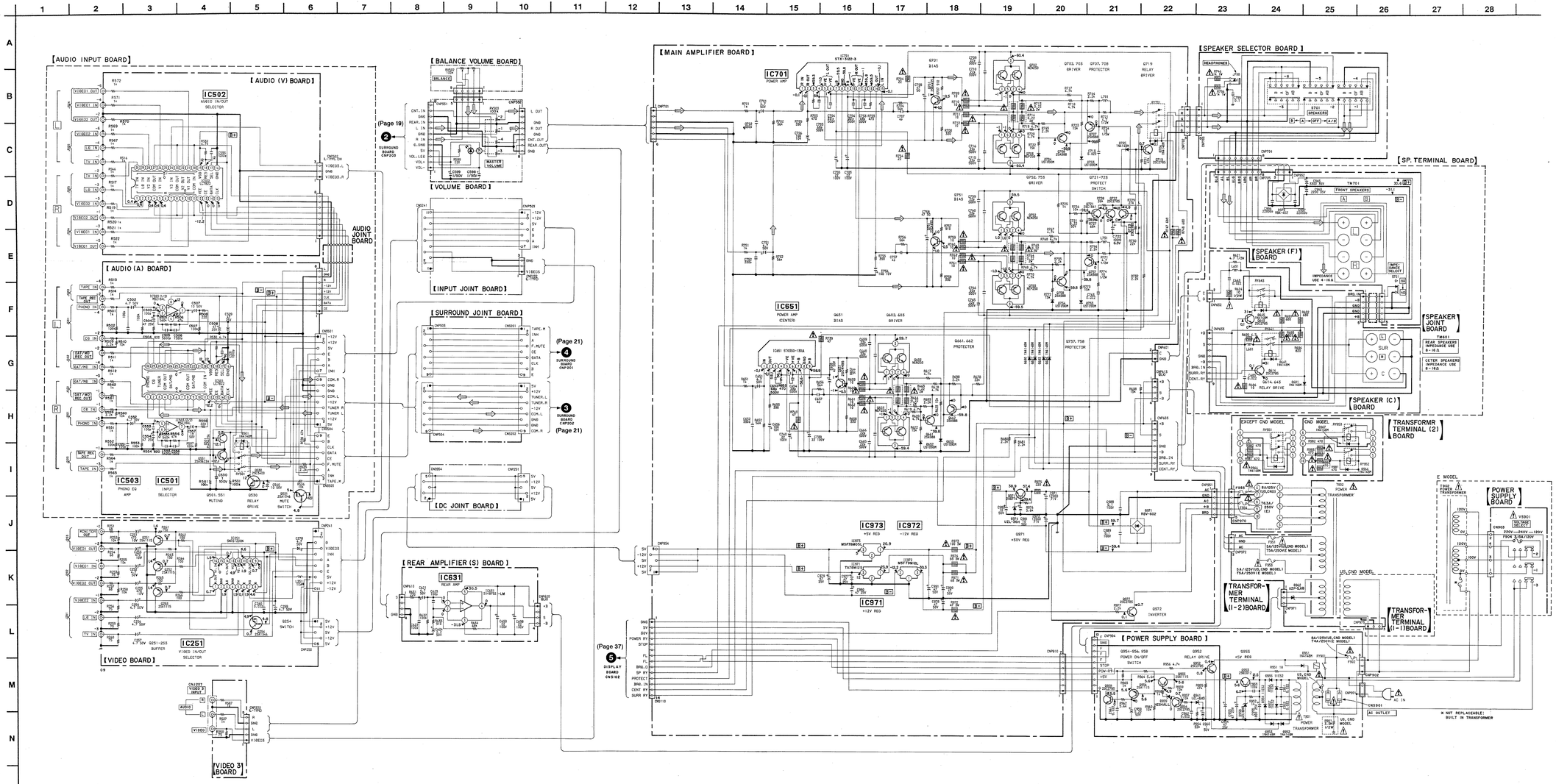


Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ : nonflammable resistor.
- ▭ : panel designation.

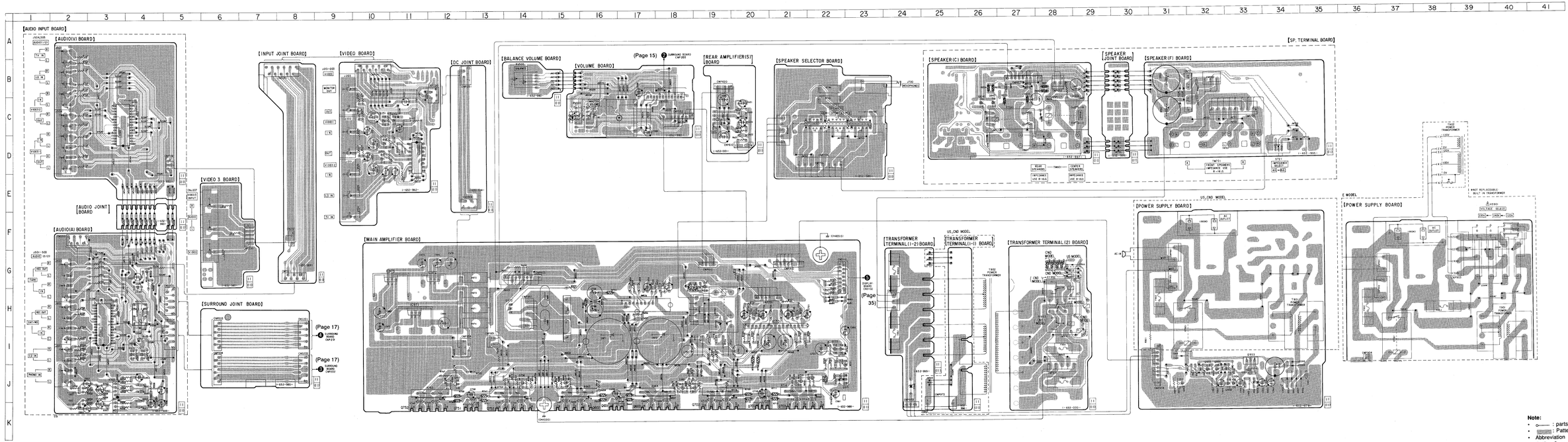
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions. no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM
- Abbreviation CND : Canadian model.



3-7. PRINTED WIRING BOARDS — MAIN SECTION —

- See page 7 for Circuit Boards Location.
- See page 9 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	I-4	IC503	J-3
D631	D-26	IC631	C-19
D641	C-26	IC651	H-17
D645	D-28	IC701	I-21
D652	J-19	IC971	H-11
D653	J-15	IC972	G-12
D680	H-23	IC973	G-11
D681	H-23		
D683	H-22	Q251	C-10
D684	H-22	Q252	D-10
D703	J-19	Q253	D-10
D704	K-22	Q254	D-11
D705	G-22	Q501	I-4
D706	H-19	Q530	I-24
D753	J-13	Q531	G-4
D754	J-13	Q551	I-6
D951	I-15	Q614	C-26
D952	I-35	Q643	D-28
D953	J-35	Q661	J-18
D954	J-34	Q662	J-15
D955	J-34	Q707	J-19
D956	J-35	Q708	J-21
D957	J-34	Q719	H-19
D958	J-33	Q721	J-23
D959	J-33	Q732	I-22
D961	J-33	Q733	I-22
D962	J-34	Q757	J-12
D966	G-29	Q758	J-14
D967	I-29	Q952	J-31
D970	C-32	Q953	J-33
D971	H-13	Q954	J-33
D974	J-22	Q955	J-32
		Q956	J-32
C251	D-11	Q958	J-33
IC501	I-3	Q971	J-23
IC502	C-3	Q972	H-14

Note:

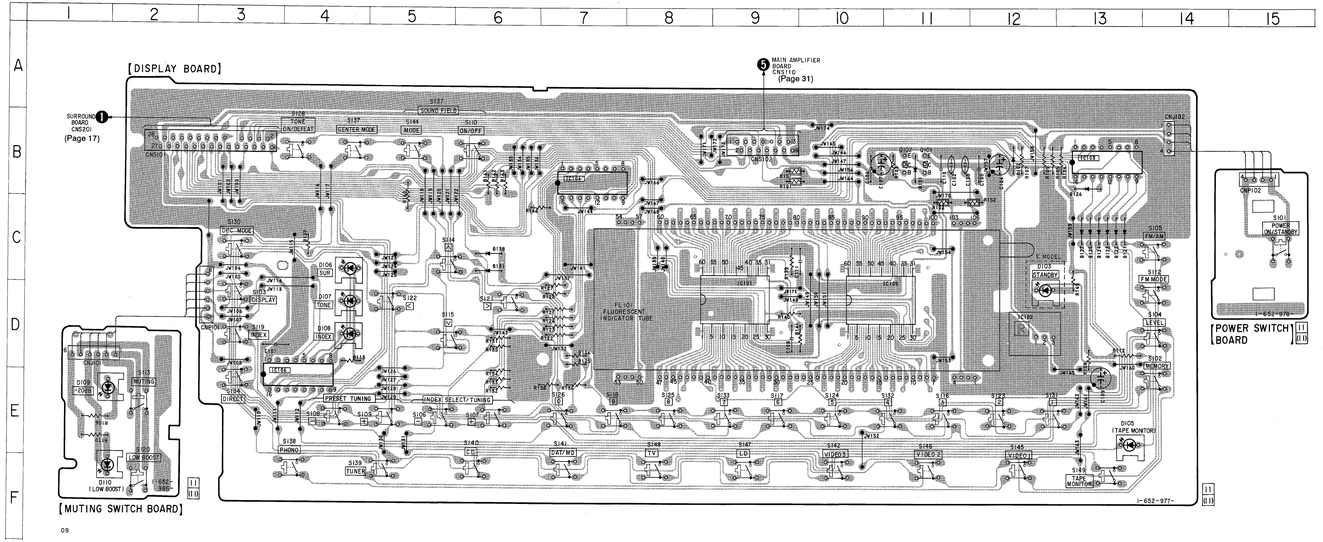
- ○——: parts extracted from the component side.
- ▨: Pattern from the side which enable seeing.
- Abbreviation
  CND : Canadian model.

3-8. PRINTED WIRING BOARDS — DISPLAY SECTION —

- See page 7 for Circuit Boards Location.
- See page 9 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D101	B-11
D102	B-12
D103	D-12
D104	E-12
D106	C-4
D107	D-4
D108	D-4
D109	E-1
D110	F-1
D121	C-13
D122	C-13
D123	C-13
D124	C-13
D125	C-13
D126	B-13
D127	C-13
D131	C-6
D135	C-6
D136	C-6
D138	C-6
IC101	C-9
IC102	D-12
IC103	B-13
IC104	B-7
IC105	C-11
IC106	E-3
Q101	B-11
Q102	B-11

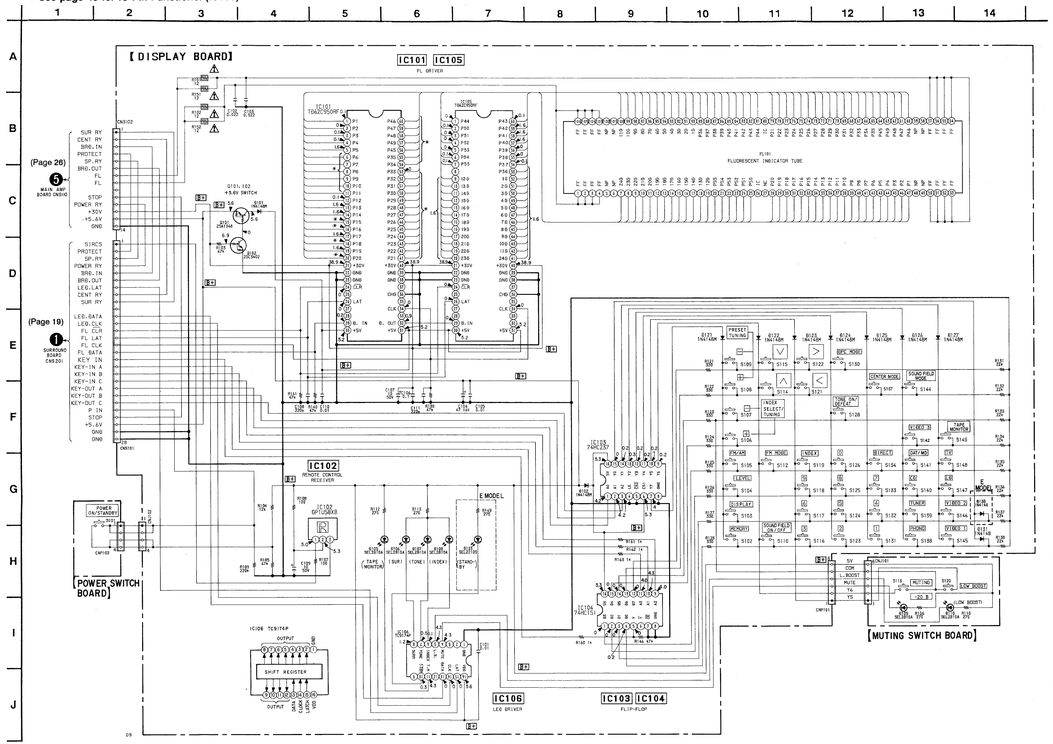


Note:

• o—— : parts extracted from the component side.
• ▒▒▒ : Pattern from the side which enable seeing.

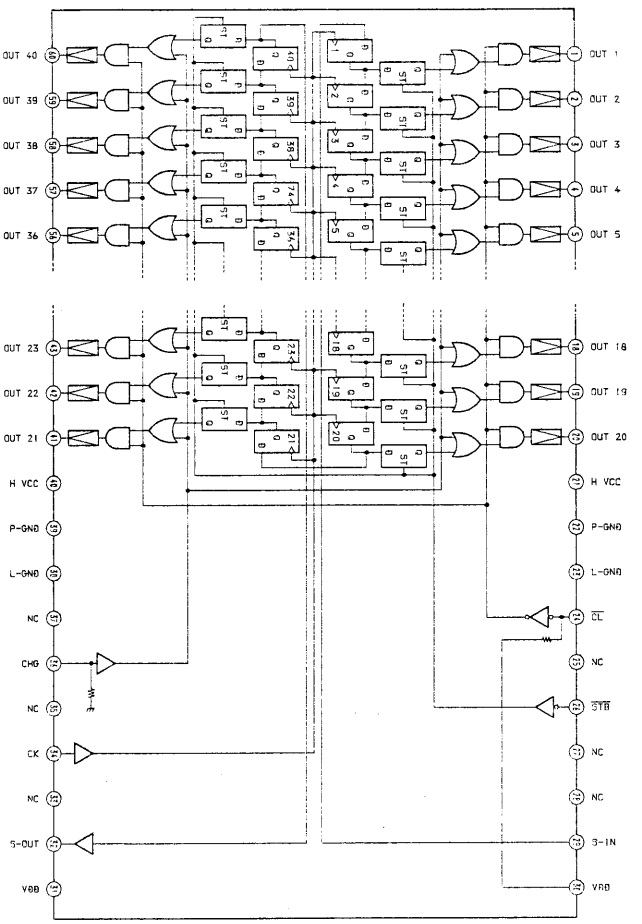
3-9. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 40 for IC Pin Functions. (IC106)



• **IC Block Diagrams.**

IC101, 105 TD62C950RF



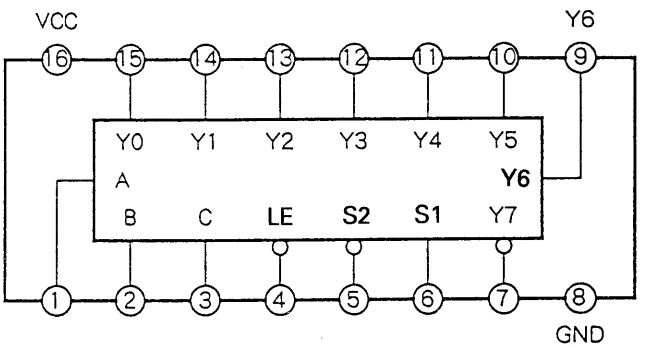
Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- [ ]: panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

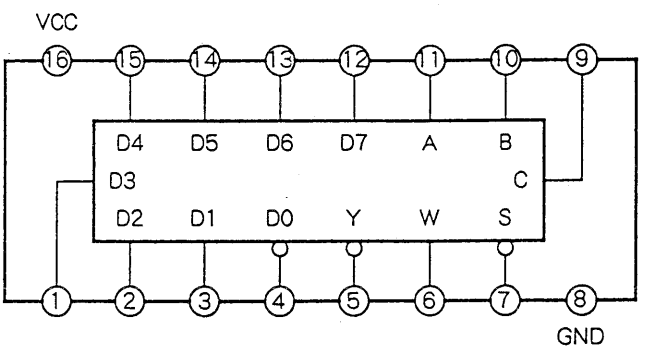
- [B+]: B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- * : can not be measured.

IC103 74HC237



INPUTS						OUTPUTS							
LE	CS1	CS2	A2	A1	A0	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	X	H	X	X	X	L	L	L	L	L	L	L	L
X	L	X	X	X	X	L	L	L	L	L	L	L	L
L	H	L	L	L	L	H	L	L	L	L	L	L	L
L	H	L	L	L	H	L	H	L	L	L	L	L	L
L	H	L	L	H	L	L	L	H	L	L	L	L	L
L	H	L	L	H	H	L	L	L	H	L	L	L	L
L	H	L	H	L	L	L	L	L	L	H	L	L	L
L	H	L	H	L	H	L	L	L	L	L	H	L	L
L	H	L	H	H	L	L	L	L	L	L	L	H	L
L	H	L	H	H	H	L	L	L	L	L	L	L	H
H	H	L	X	X	X	HOLD							

IC104 74HC151



INPUTS				OUTPUTS	
SELECT			STROBE	Y	W
C	B	A	S		
X	X	X	H	L	H
L	L	L	L	D0	$\overline{D0}$
L	L	H	L	D1	$\overline{D1}$
L	H	L	L	D2	$\overline{D2}$
L	H	H	L	D3	$\overline{D3}$
H	L	L	L	D4	$\overline{D4}$
H	L	H	L	D5	$\overline{D5}$
H	H	L	L	D6	$\overline{D6}$
H	H	H	L	D7	$\overline{D7}$

3-10. IC PIN FUNCTIONS

- **IC106 (TC9174P) LED DRIVER**

Pin No.	Pin Name	I/O	Function
1	GND	–	GND
2	–	–	Not used
3	–	–	Not used
4	MUTE	O	MUTING LED drive
5	L.B.	O	LOW BOOST LED drive
6	INDEX	O	INDEX LED drive
7	TONE	O	TONE LED drive
8	SURR	O	SUR LED drive
9	–	–	Not used
10	STBY	O	STANDBY LED drive (E model)
11	T.M	O	TAPE MONITOR LED drive
12	–	–	Not used
13	DATA	I	Serial data input
14	CK	I	Serial clock input
15	LAT	I	Serial latch input
16	V_{DD}	–	+5.6V

- **IC202 (μPD75518GF-195-3B9) MAIN CONTROLLER**

Pin No.	Pin Name	I/O	Function
1	P. IN	I	POWER IN
2	A/D. REF	–	REFERENCE VOLTAGE OF A/D CONVERTER (+5V)
3	+5V	–	+5V
4	+5V	–	+5V
5	–	O	OPEN
6	T. MUT	O	TUNER MUTE
7	TONE. LAT	O	TONE latch
8	–	O	OPEN
9	LOW BOOST	O	LOW BOOST ON/OFF
10	KEY-O. C	O	KEY OUT CONTROL -C
11	KEY-O. B	O	KEY OUT CONTROL -B
12	KEY-O. A	O	KEY OUT CONTROL -A
13	T-2	O	TAPE MONITOR ON/OFF
14	KEY-I. C	O	KEY IN CONTROL -C
15	KEY-I. B	O	KEY IN CONTROL -B
16	KEY-I. A	O	KEY IN CONTROL -A
17	KEY. IN	I	KEY INPUT
18	FL. DATA	O	FL DRIVER SERIAL DATA
19	FL. CK	O	FL DRIVER SERIAL CLOCK
20	–	–	GND
21	VR (+)	O	VOLUME UP control
22	VR (–)	O	VOLUME DOWN control
23	FL. LS	O	FL DRIVER LATCH
24	FL. CL	O	FL DRIVER CLEAR
25	LED CK	O	LED clock
26	LED DATA	O	LED data
27	SURR. RY	O	SURROUND RELAY drive
28	CENTER. RY	O	CENTER RELAY drive
29	LED LAT	O	LED latch
30	VOL LED	O	VOLUME LED drive
31	VIDEO-A	O	VIDEO A SELECT
32	BRIDGEABLE OUT	O	SP=8Ω : 2CH → "L", SURR → "H"/SP=4Ω : ALL "H"
33	Vss	–	GND
34	–	–	GND
35	–	–	GND
36	–	–	GND
37	BRIDGEABLE IN	I	SP4Ω /8Ω SELECT4Ω = "L" 8Ω ="H"
38	PW. RY	O	POWER RELAY drive
39	SP. RY	O	SPEAKER RELAY drive
40	S. CLK	O	SERIAL CLOCK

Pin No.	Pin Name	I/O	Function
41	S. DATA	O	SERIAL DATA
42	LAT	O	SERIAL LATCH
43	FUNC. MUT	O	FUNCTION MUTE
44	-20DB. MUT	O	-20dB MUTE
45	PROT. MUT	O	PROTECTOR MUTE (Use a things S-MUTE)
46	STEREO. IN	I	TUNER STEREO SIGNAL INPUT
47	PROT. IN	I	PROTECTOR INPUT
48	GND	–	GND
49	REMO. MA	I	REMOTE CONTROL INPUT
50	ADJ. LAT	I	AUTO MEASUREMENT LATCH
51	A. STOP	I	TUNER AUTO STOP
52	D. IN	I	IF COUNT DATA INPUT
53	STOP	I	STOP DETECT
54	Vss	–	GND
55	XT1	–	GND
56	–	–	OPEN
57	IC	–	GND
58	OSC	–	CRYSTAL OSCILLATOR 6MHz
59	OSC	–	CRYSTAL OSCILLATOR 6MHz
60	RESET	I	RESET INPUT
61	SURR CLOCK	O	Serial clock for surround IC (LV1010N, LA2785)
62	SURR DATA	O	Serial data for surround IC (LV1010N, LA2785)
63	SURR LAT	O	Serial latch for surround IC (LV1010N, LA2785)
64	INH	O	Inhidit output for VIDEO MONITOR OUT
65	–	I	GND
66	–	I	GND
67	–	I	GND
68	–	I	GND
69	–	I	GND
70	–	I	GND
71	–	I	GND
72	–	I	GND
73	AVss	–	GND
74	–	I	GND
75	–	I	GND
76	–	I	GND
77	–	I	GND
78	–	I	GND
79	–	I	GND
80	–	I	GND

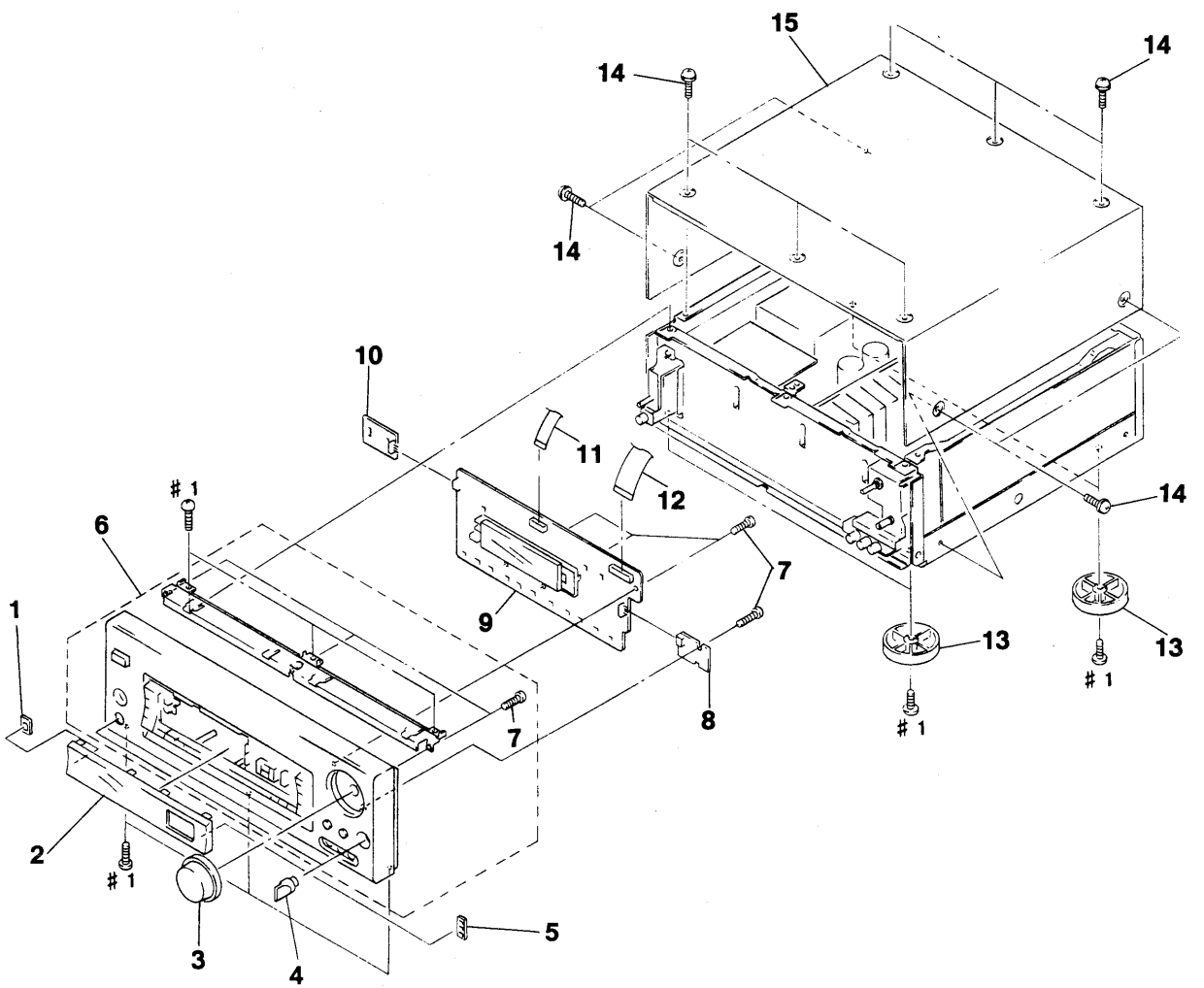
SECTION 4
EXPLODED VIEWS

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

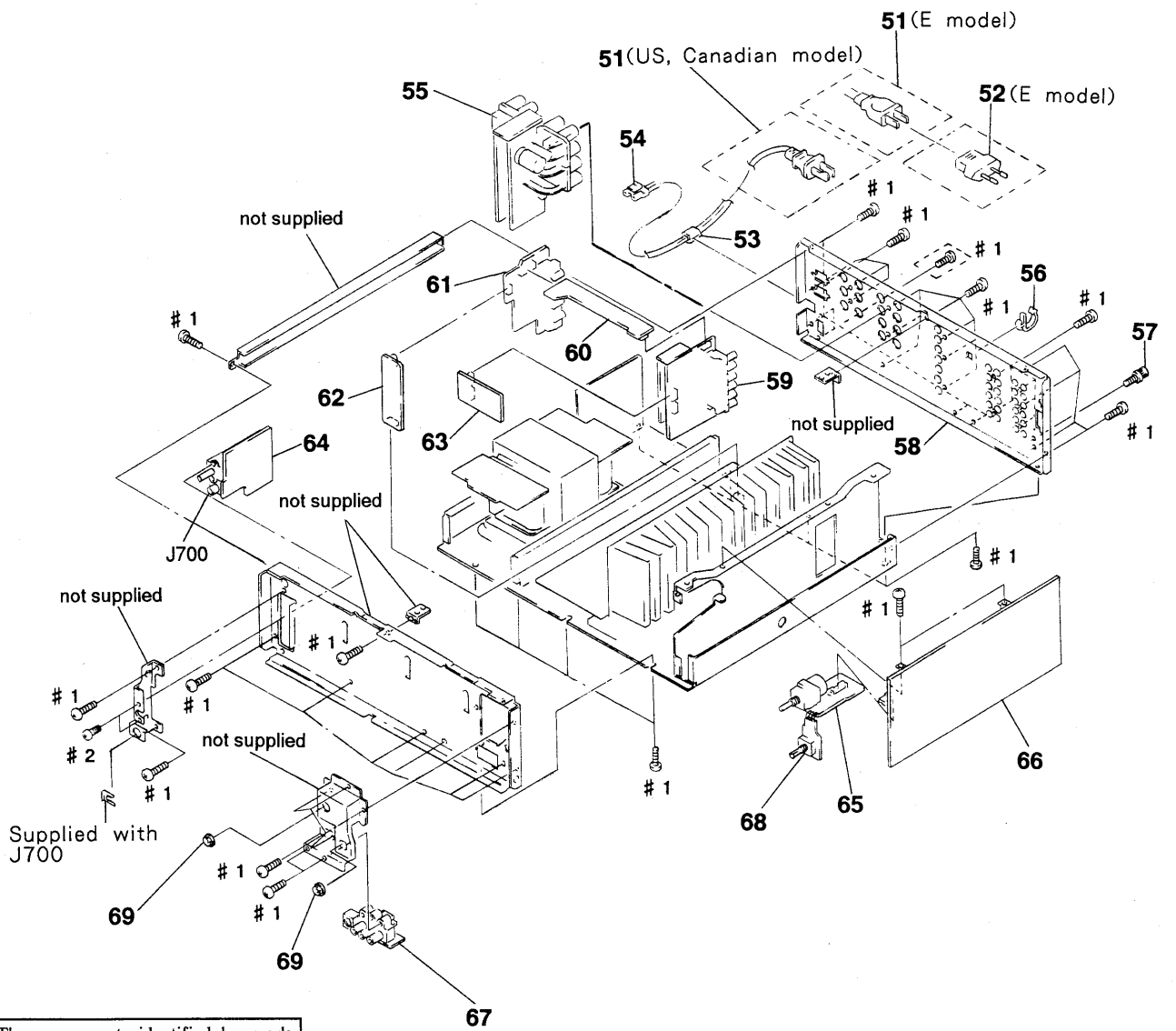
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-968-469-11	ILLUMINATOR (ST) (E)	
2	4-965-948-01	PLATE (B), INDICATION (US, CND)	
2	4-965-948-11	PLATE (B), INDICATION (E)	
3	X-4942-296-1	KNOB ASSY	
4	4-908-097-21	KNOB	
5	4-967-925-11	ILLUMINATOR (DPC)	
6	X-4944-987-1	PANEL ASSY, FRONT	
7	4-951-620-01	SCREW (2.6X8), +BVTP	
* 8	1-652-986-11	MUTING SWITCH BOARD	
* 9	A-4371-301-A	DISPLAY BOARD, COMPLETE (US, CND)	
* 9	A-4371-302-A	DISPLAY BOARD, COMPLETE (E)	
* 10	1-652-978-11	POWER SWITCH BOARD	
11	1-765-300-11	WIRE (FLAT TYPE) (13 CORE)	
12	1-765-308-11	WIRE (FLAT TYPE) (27 CORE)	
13	X-4942-706-1	FOOT (58175) ASSY	
14	3-704-366-01	SCREW (CASE) (M3X8)	
15	4-966-116-01	CASE	

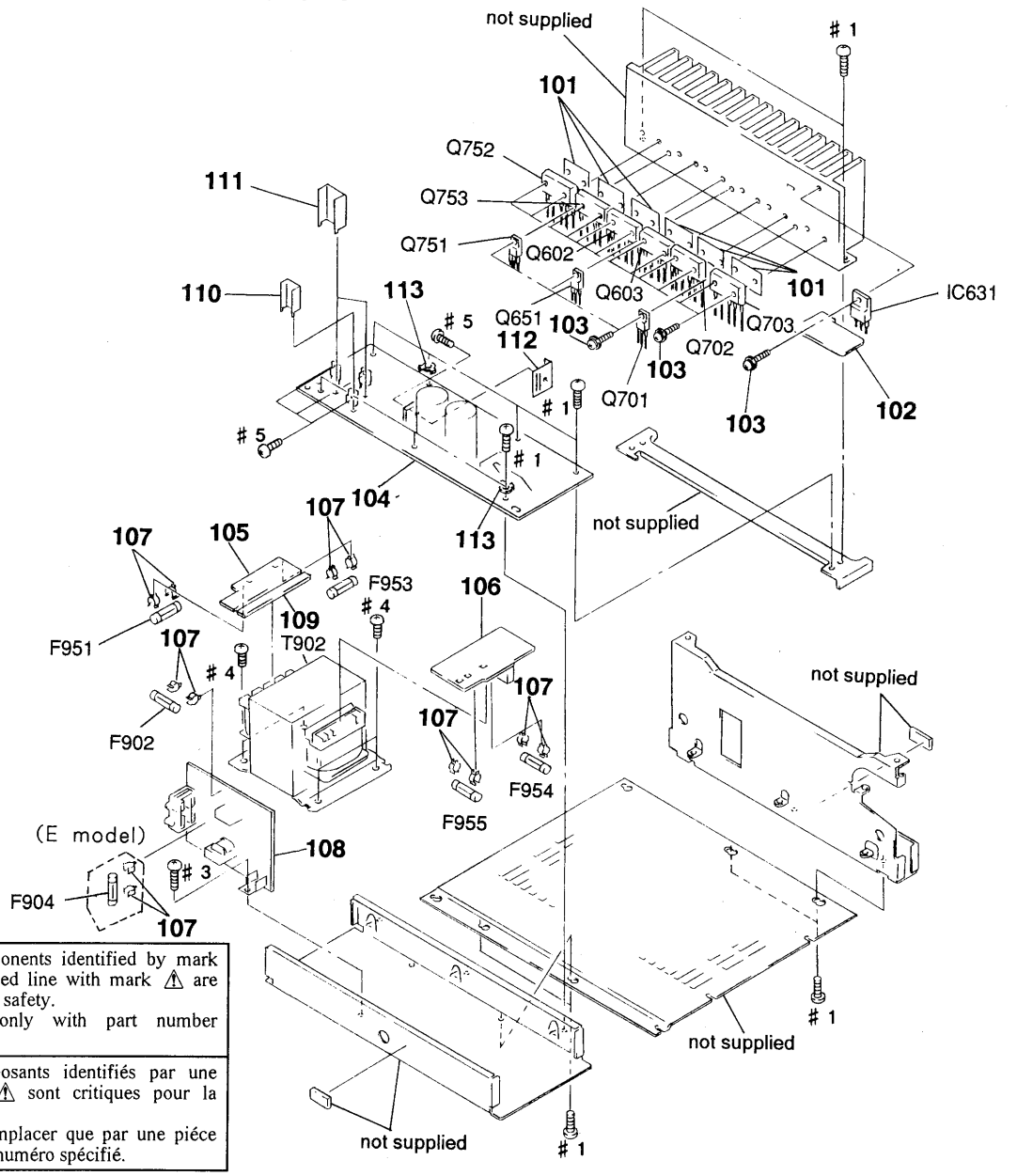
4-2. BACK PANEL SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠51	1-575-975-11	CORD, POWER (US, CND)	
⚠51	1-590-074-11	CORD, POWER (E)	
⚠52	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 53	3-703-244-00	BUSHING (2104), CORD	
⚠54	1-769-077-31	LEAD (WITH CONNECTOR) (2 CORE) (US, CND)	
* 55	A-4371-336-A	SP. TERMINAL BOARD, COMPLETE	
* 56	4-949-235-01	HOOK	
57	4-947-010-01	SCREW, FEEDER FIXED	
* 58	4-966-945-01	PANEL, BACK (US)	
* 58	4-966-945-11	PANEL, BACK (CND)	
* 58	4-966-945-21	PANEL, BACK (E)	
* 59	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE	
* 60	1-652-984-11	INPUT JOINT BOARD	
* 61	1-652-992-11	VIDEO BOARD	
* 62	1-653-514-11	DC JOINT BOARD	
* 63	1-652-985-11	SURROUND JOINT BOARD	
* 64	1-652-980-11	SPEAKER SELECTOR BOARD	
* 65	1-652-982-11	VOLUME BOARD	
* 66	A-4371-330-A	SURROUND BOARD, COMPLETE (US, CND)	
* 66	A-4371-331-A	SURROUND BOARD, COMPLETE (E)	
* 67	1-652-981-11	VIDEO-3 BOARD	
* 68	1-652-983-11	BALANCE VOLUME BOARD	
69	3-575-039-00	NUT CONTROL	

4-3. POWER TRANSFORMER SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	4-885-901-31	SHEET, RADIATION	
* 102	1-653-001-11	REAR AMPLIFIER (S) BOARD	
103	3-905-609-01	SCREW (TRANSISTOR)	
* 104	A-4371-333-A	MAIN AMPLIFIER BOARD, COMPLETE (US, E)	
* 104	A-4371-334-A	MAIN AMPLIFIER BOARD, COMPLETE (CND)	
* 105	1-652-999-11	TRANSFORMER TERMINAL (1-2) BOARD	
* 106	1-653-000-11	TRANSFORMER TERMINAL (2) BOARD	
107	1-533-293-11	FUSE HOLDER	
* 108	A-4371-310-A	POWER SUPPLY BOARD, COMPLETE (US, CND)	
* 108	A-4371-328-A	POWER SUPPLY BOARD, COMPLETE (E)	
* 109	1-652-998-11	TRANSFORMER TERMINAL (1-1) BOARD (US, CND)	
* 110	3-309-144-21	HEAT SINK	
* 111	4-964-290-01	HEAT SINK	
* 112	4-931-903-01	HEAT SINK (DI)	
* 113	4-942-204-01	PLATE, GROUND	
IC631	8-759-502-33	IC SI-18752	
⚠F902	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
⚠F951	1-532-299-00	TIME LAG FUSE (T5AL 250V) (E)	

Ref. No.	Part No.	Description	Remark
⚠F951	1-576-109-11	FUSE (5A 125V) (US, CND)	
⚠F953	1-532-299-00	TIME LAG FUSE (T5AL 250V) (E)	
⚠F953	1-576-109-11	FUSE (5A 125V) (US, CND)	
⚠F954	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F955	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
Q602	8-749-010-43	IC NE-N250	
Q603	8-749-010-42	IC NE-P250	
Q651	8-729-026-08	TRANSISTOR 2SC4495	
Q701	8-729-026-08	TRANSISTOR 2SC4495	
Q702	8-749-010-43	IC NE-N250	
Q703	8-749-010-42	IC NE-P250	
Q751	8-729-026-08	TRANSISTOR 2SC4495	
Q752	8-749-010-43	IC NE-N250	
Q753	8-749-010-42	IC NE-P250	
⚠T902	1-426-880-11	TRANSFORMER, POWER (US)	
⚠T902	1-426-881-11	TRANSFORMER, POWER (CND)	
⚠T902	1-426-882-11	TRANSFORMER, POWER (E)	

AUDIO INPUT

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation
  CND : Canadian model

Ref. No.	Part No.	Description			Remark
*	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE			
		**********			
		(INDLUDING AUDIO (A) BOARD, AUDIO JOINT BOARD, AUDIO (V) BOARD)			
		< CAPACITOR >			
C501	1-162-282-31	CERAMIC	100PF	10%	50V
C502	1-124-927-11	ELECT	4.7uF	20%	100V
C503	1-162-282-31	CERAMIC	100PF	10%	50V
C504	1-124-477-11	ELECT	47uF	20%	25V
C505	1-130-480-00	MYLAR	0.0056uF	5%	50V
C506	1-130-473-00	MYLAR	0.0015uF	5%	50V
C507	1-124-907-11	ELECT	10uF	20%	50V
C508	1-124-477-11	ELECT	47uF	20%	25V
C509	1-124-477-11	ELECT	47uF	20%	25V
C530	1-136-746-11	MYLAR	1uF	20%	100V
C531	1-162-294-31	CERAMIC	0.001uF	10%	50V
C533	1-162-294-31	CERAMIC	0.001uF	10%	50V
C540	1-124-907-11	ELECT	10uF	20%	50V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-124-927-11	ELECT	4.7uF	20%	100V
C553	1-162-282-31	CERAMIC	100PF	10%	50V
C554	1-124-477-11	ELECT	47uF	20%	25V
C555	1-130-480-00	MYLAR	0.0056uF	5%	50V
C556	1-130-473-00	MYLAR	0.0015uF	5%	50V
C557	1-124-907-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNP502	1-564-518-11	PLUG, CONNECTOR 3P			
CNS501	1-695-092-11	SOCKET, CONNECTOR 7P			
CNS503	1-695-093-11	SOCKET, CONNECTOR 9P			
CNS504	1-695-093-11	SOCKET, CONNECTOR 9P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC501	8-759-805-14	IC LC7822			
IC502	8-759-805-14	IC LC7822			
IC503	8-759-634-50	IC M5218AL			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J501	1-766-396-11	JACK, PIN 4P (CD/PHONO IN)			
J502	1-750-150-11	JACK, PIN 4P (DAT/MD IN/OUT)			
J503	1-750-150-11	JACK, PIN 4P (TAPE IN/OUT)			
J504	1-580-825-11	JACK, PIN 6P (VIDEO 1 IN/OUT, VIDEO 2 OUT-AUDIO)			
J505	1-580-825-11	JACK, PIN 6P (VIDEO 2/LD/TV IN-AUDIO)			
		< TRANSISTOR >			
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q530	8-729-900-36	TRANSISTOR DTC124ES			
Q531	8-729-900-63	TRANSISTOR DTA124ES			
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-416-11	CARBON	820	5%	1/4W F
R505	1-247-897-11	CARBON	560K	5%	1/4W
R506	1-249-437-11	CARBON	47K	5%	1/4W
R507	1-249-441-11	CARBON	100K	5%	1/4W
R508	1-249-409-11	CARBON	220	5%	1/4W F
R509	1-249-421-11	CARBON	2.2K	5%	1/4W F
R510	1-249-429-11	CARBON	10K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W F
R512	1-249-417-11	CARBON	1K	5%	1/4W F
R514	1-249-417-11	CARBON	1K	5%	1/4W F
R515	1-249-417-11	CARBON	1K	5%	1/4W F
R516	1-249-417-11	CARBON	1K	5%	1/4W F
R517	1-249-417-11	CARBON	1K	5%	1/4W F
R519	1-249-417-11	CARBON	1K	5%	1/4W F
R520	1-249-417-11	CARBON	1K	5%	1/4W F
R521	1-249-417-11	CARBON	1K	5%	1/4W F
R522	1-249-417-11	CARBON	1K	5%	1/4W F
R530	1-249-425-11	CARBON	4.7K	5%	1/4W F
R531	1-249-441-11	CARBON	100K	5%	1/4W
R532	1-249-425-11	CARBON	4.7K	5%	1/4W F
R535	1-249-421-11	CARBON	2.2K	5%	1/4W F
R536	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-441-11	CARBON	100K	5%	1/4W

AUDIO INPUT | BALANCE VOLUME | DC JOINT | DISPLAY

Ref.No.	Part No.	Description				Remark
R553	1-249-441-11	CARBON	100K	5%	1/4W	
R554	1-249-416-11	CARBON	820	5%	1/4W	F
R555	1-247-897-11	CARBON	560K	5%	1/4W	
R556	1-249-437-11	CARBON	47K	5%	1/4W	
R557	1-249-441-11	CARBON	100K	5%	1/4W	
R558	1-249-409-11	CARBON	220	5%	1/4W	F
R559	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R560	1-249-429-11	CARBON	10K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	F
R562	1-249-417-11	CARBON	1K	5%	1/4W	F
R564	1-249-417-11	CARBON	1K	5%	1/4W	F
R565	1-249-417-11	CARBON	1K	5%	1/4W	F
R566	1-249-417-11	CARBON	1K	5%	1/4W	F
R567	1-249-417-11	CARBON	1K	5%	1/4W	F
R569	1-249-417-11	CARBON	1K	5%	1/4W	F
R570	1-249-417-11	CARBON	1K	5%	1/4W	F
R571	1-249-417-11	CARBON	1K	5%	1/4W	F
R572	1-249-417-11	CARBON	1K	5%	1/4W	F
R581	1-249-441-11	CARBON	100K	5%	1/4W	
R598	1-249-437-11	CARBON	47K	5%	1/4W	
		< RELAY >				
RY501	1-515-614-11	RELAY				

****

*	1-652-983-11	BALANCE VOLUME BOARD	
		**********	
		< VARIABLE RESISTOR >	
RV502	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	

****

*	1-653-514-11	DC JOINT BOARD	
		**********	
		< CONNECTOR >	
CNP251	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
CNS954	1-750-179-11	SOCKET, CONNECTOR 5P	

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*	A-4371-301-A	DISPLAY BOARD, COMPLETE (US, CND)	
		**********	
*	A-4371-302-A	DISPLAY BOARD, COMPLETE (E)	
		**********	
		< CAPACITOR >	
C101	1-161-379-00	CERAMIC	0.01uF 20% 25V
C102	1-164-097-11	CERAMIC	0.022uF 50V
C103	1-164-097-11	CERAMIC	0.022uF 50V
C104	1-124-477-11	ELECT	47uF 20% 25V
C105	1-161-379-00	CERAMIC	0.01uF 20% 25V
C106	1-164-159-11	CERAMIC	0.1uF 50V
C107	1-124-907-11	ELECT	10uF 20% 50V
C108	1-162-286-31	CERAMIC	220PF 10% 50V
C109	1-126-157-11	ELECT	10uF 20% 16V
C110	1-161-379-00	CERAMIC	0.01uF 20% 25V
C111	1-162-286-31	CERAMIC	220PF 10% 50V
		< CONNECTOR >	
* CNJ102	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
* CNP101	1-569-798-11	PLUG, CONNECTOR 6P	
* CNP102	1-565-295-11	PLUG, CONNECTOR 4P	
CNS101	1-766-040-11	CONNECTOR, FFC(LIF(NON-ZIF))27P	
CNS102	1-766-026-11	CONNECTOR, FFC(LIF(NON-ZIF))13P	
		< DIODE >	
D101	8-719-987-63	DIODE	1N4148M
D102	8-719-987-63	DIODE	1N4148M
D103	8-719-313-43	LED	SEL2210S-TH10 (STANDBY) (E)
D105	8-719-301-49	LED	SEL2810A (TAPE MONITOR)
D106	8-719-301-49	LED	SEL2810A (SUR)
D107	8-719-301-49	LED	SEL2810A (TONE)
D108	8-719-301-49	LED	SEL2810A (INDEX)
D121	8-719-987-63	DIODE	1N4148M
D122	8-719-987-63	DIODE	1N4148M
D123	8-719-987-63	DIODE	1N4148M
D124	8-719-987-63	DIODE	1N4148M
D125	8-719-987-63	DIODE	1N4148M
D126	8-719-987-63	DIODE	1N4148M
D127	8-719-987-63	DIODE	1N4148M
D131	8-719-987-63	DIODE	1N4148M
D138	8-719-987-63	DIODE	1N4148M (E)
		< FLUORESCENT INDICATOR >	
FL101	1-517-305-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC101	8-759-075-35	IC	TD62C950RF
IC102	8-749-923-11	IC	GP1U58XB
IC103	8-759-282-30	IC	PC74HC237
IC104	8-759-282-06	IC	PC74HC151
IC105	8-759-075-35	IC	TD62C950RF
IC106	8-759-202-07	IC	TC9174P
		< TRANSISTOR >	
Q101	8-729-900-61	TRANSISTOR	DTA114ES
Q102	8-729-900-80	TRANSISTOR	DTC114ES

DISPLAY | INPUT JOINT | MAIN AMPLIFIER

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
⚠R101	1-249-394-11	CARBON	12	5%	1/4W	F
⚠R102	1-249-394-11	CARBON	12	5%	1/4W	F
R103	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-430-11	CARBON	12K	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R107	1-247-807-31	CARBON	100	5%	1/4W	
R108	1-247-807-31	CARBON	100	5%	1/4W	
R109	1-247-887-00	CARBON	220K	5%	1/4W	
R112	1-249-410-11	CARBON	270	5%	1/4W	F
R113	1-249-410-11	CARBON	270	5%	1/4W	F
R121	1-249-411-11	CARBON	330	5%	1/4W	
R122	1-249-411-11	CARBON	330	5%	1/4W	
R123	1-249-411-11	CARBON	330	5%	1/4W	
R124	1-249-411-11	CARBON	330	5%	1/4W	
R125	1-249-411-11	CARBON	330	5%	1/4W	
R126	1-249-411-11	CARBON	330	5%	1/4W	
R127	1-249-411-11	CARBON	330	5%	1/4W	
R128	1-249-411-11	CARBON	330	5%	1/4W	
R131	1-249-433-11	CARBON	22K	5%	1/4W	
R132	1-249-433-11	CARBON	22K	5%	1/4W	
R133	1-249-433-11	CARBON	22K	5%	1/4W	
R134	1-249-433-11	CARBON	22K	5%	1/4W	
R135	1-249-433-11	CARBON	22K	5%	1/4W	
R136	1-249-433-11	CARBON	22K	5%	1/4W	
R137	1-249-433-11	CARBON	22K	5%	1/4W	
R138	1-249-433-11	CARBON	22K	5%	1/4W	
R139	1-249-437-11	CARBON	47K	5%	1/4W	
R140	1-249-437-11	CARBON	47K	5%	1/4W	
R141	1-249-437-11	CARBON	47K	5%	1/4W	
R146	1-249-437-11	CARBON	47K	5%	1/4W	
R149	1-249-410-11	CARBON	270	5%	1/4W	F (E)
⚠R151	1-249-394-11	CARBON	12	5%	1/4W	F
⚠R152	1-249-394-11	CARBON	12	5%	1/4W	F
R160	1-249-417-11	CARBON	1K	5%	1/4W	F
R161	1-249-417-11	CARBON	1K	5%	1/4W	F
R162	1-249-417-11	CARBON	1K	5%	1/4W	F
R163	1-249-417-11	CARBON	1K	5%	1/4W	F
		< SWITCH >				
S102	1-554-303-21	SWITCH, TACTILE (MEMORY)				
S103	1-554-303-21	SWITCH, TACTILE (DISPLAY)				
S104	1-554-303-21	SWITCH, TACTILE (LEVEL)				
S105	1-554-303-21	SWITCH, TACTILE (FM/AM)				
S106	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING -)				
S107	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING +)				
S108	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)				
S109	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)				
S110	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)				
S112	1-554-303-21	SWITCH, TACTILE (FM MODE)				

Ref. No.	Part No.	Description	Remark
S114	1-554-303-21	SWITCH, TACTILE (^)	
S115	1-554-303-21	SWITCH, TACTILE (v)	
S116	1-554-303-21	SWITCH, TACTILE (3)	
S117	1-554-303-21	SWITCH, TACTILE (6)	
S118	1-554-303-21	SWITCH, TACTILE (9)	
S119	1-554-303-21	SWITCH, TACTILE (INDEX)	
S121	1-554-303-21	SWITCH, TACTILE (>)	
S122	1-554-303-21	SWITCH, TACTILE (<)	
S123	1-554-303-21	SWITCH, TACTILE (2)	
S124	1-554-303-21	SWITCH, TACTILE (5)	
S125	1-554-303-21	SWITCH, TACTILE (8)	
S126	1-554-303-21	SWITCH, TACTILE (0)	
S128	1-554-303-21	SWITCH, TACTILE (TONE ON/DEFEAT)	
S130	1-554-303-21	SWITCH, TACTILE (DPC MODE)	
S131	1-554-303-21	SWITCH, TACTILE (1)	
S132	1-554-303-21	SWITCH, TACTILE (4)	
S133	1-554-303-21	SWITCH, TACTILE (7)	
S134	1-554-303-21	SWITCH, TACTILE (DIRECT)	
S137	1-554-303-21	SWITCH, TACTILE (CENTER MODE)	
S138	1-554-303-21	SWITCH, TACTILE (PHONO)	
S139	1-554-303-21	SWITCH, TACTILE (TUNER)	
S140	1-554-303-21	SWITCH, TACTILE (CD)	
S141	1-554-303-21	SWITCH, TACTILE (DAT/MD)	
S142	1-554-303-21	SWITCH, TACTILE (VIDEO 3)	
S144	1-554-303-21	SWITCH, TACTILE (SOUND FIELD MODE)	
S145	1-554-303-21	SWITCH, TACTILE (VIDEO 1)	
S146	1-554-303-21	SWITCH, TACTILE (VIDEO 2)	
S147	1-554-303-21	SWITCH, TACTILE (LD)	
S148	1-554-303-21	SWITCH, TACTILE (TV)	
S149	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR)	
**********			
*	1-652-984-11	INPUT JOINT BOARD	
		**********	
		< CONNECTOR >	
* CNP232	1-564-518-11	PLUG, CONNECTOR 3P	
CNP521	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CNS241	1-695-094-11	SOCKET, CONNECTOR 11P	
**********			
*	A-4371-333-A	MAIN AMPLIFIER BOARD, COMPLETE (US, E)	
		**********	
*	A-4371-334-A	MAIN AMPLIFIER BOARD, COMPLETE (CND)	
		**********	
*	3-309-144-21	HEAT SINK	
*	4-880-403-11	HEAT SINK	
*	4-931-903-01	HEAT SINK (DI)	
*	4-942-204-01	PLATE, GROUND	
	4-969-002-01	SPACER (DIA. 29)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MAIN AMPLIFIER

Ref.No.	Part No.	Description			Remark
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C651	1-124-927-11	ELECT	4.7uF	20%	100V
C652	1-164-079-11	CERAMIC	330PF	10%	50V
C653	1-102-989-00	CERAMIC	68PF	5%	500V
C654	1-102-989-00	CERAMIC	68PF	5%	500V
C656	1-124-443-00	ELECT	100uF	20%	10V
C657	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C658	1-124-910-11	ELECT	47uF	20%	50V
C659	1-161-959-00	CERAMIC	22PF	10%	500V
C660	1-161-959-00	CERAMIC	22PF	10%	500V
C665	1-161-959-00	CERAMIC	22PF	10%	500V
C666	1-161-959-00	CERAMIC	22PF	10%	500V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-164-079-11	CERAMIC	330PF	10%	50V
C703	1-102-989-00	CERAMIC	68PF	5%	500V
C704	1-161-959-00	CERAMIC	22PF	10%	500V
C705	1-124-929-11	ELECT	22uF	20%	100V
C706	1-124-443-00	ELECT	100uF	20%	10V
C707	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C708	1-124-910-11	ELECT	47uF	20%	50V
C709	1-161-959-00	CERAMIC	22PF	10%	500V
C710	1-161-959-00	CERAMIC	22PF	10%	500V
C713	1-130-487-00	MYLAR	0.022uF	5%	50V
C715	1-161-959-00	CERAMIC	22PF	10%	500V
C716	1-161-959-00	CERAMIC	22PF	10%	500V
C721	1-136-169-00	FILM	0.22uF	5%	50V
C722	1-124-471-00	ELECT	1000uF	20%	6.3V
C739	1-124-929-11	ELECT	22uF	20%	100V
C740	1-124-929-11	ELECT	22uF	20%	100V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-164-079-11	CERAMIC	330PF	10%	50V
C753	1-102-989-00	CERAMIC	68PF	5%	500V
C754	1-161-959-00	CERAMIC	22PF	10%	500V
C755	1-124-929-11	ELECT	22uF	20%	100V
C756	1-124-443-00	ELECT	100uF	20%	10V
C757	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C758	1-124-910-11	ELECT	47uF	20%	50V
C759	1-161-959-00	CERAMIC	22PF	10%	500V
C760	1-161-959-00	CERAMIC	22PF	10%	500V
C763	1-130-487-00	MYLAR	0.022uF	5%	50V
C765	1-161-959-00	CERAMIC	22PF	10%	500V
C766	1-161-959-00	CERAMIC	22PF	10%	500V
C971	1-125-752-11	ELECT	12000uF	20%	71V
C972	1-125-752-11	ELECT	12000uF	20%	71V
C977	1-124-477-11	ELECT	47uF	20%	25V
C978	1-124-910-11	ELECT	47uF	20%	50V
C979	1-124-477-11	ELECT	47uF	20%	25V
C980	1-124-477-11	ELECT	47uF	20%	25V
C981	1-124-907-11	ELECT	10uF	20%	50V
C982	1-124-907-11	ELECT	10uF	20%	50V
C988	1-106-220-00	MYLAR	0.1uF	5%	100V
C989	1-106-220-00	MYLAR	0.1uF	5%	100V
C990	1-124-910-11	ELECT	47uF	20%	50V
C991	1-124-910-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
CNP601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP603	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CNP613	1-691-765-21	PLUG (MICRO CONNECTOR) 3P			
CNP701	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
* CNP702	1-564-242-00	PIN, CONNECTOR 5P			
CNP910	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
* CNP951	1-564-242-00	PIN, CONNECTOR 5P			
CNP954	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
CNS110	1-764-918-11	CONNECTOR, FFC(LIF(NON-ZIF))13P			
		< DIODE >			
D652	8-719-815-85	DIODE 1S1585			
D653	8-719-815-85	DIODE 1S1585			
D680	8-719-987-63	DIODE 1N4148M			
D681	8-719-987-63	DIODE 1N4148M			
D683	8-719-987-63	DIODE 1N4148M			
D684	8-719-987-63	DIODE 1N4148M			
D703	8-719-815-85	DIODE 1S1585			
D704	8-719-815-85	DIODE 1S1585			
D705	8-719-987-63	DIODE 1N4148M			
D706	8-719-987-63	DIODE 1N4148M			
D753	8-719-815-85	DIODE 1S1585			
D754	8-719-815-85	DIODE 1S1585			
D971	8-719-302-38	DIODE RBV-602-01			
D974	8-719-002-76	DIODE UZL-36H			
		< IC >			
IC651	8-749-010-16	IC STK350-130A			
IC701	8-749-921-85	IC STK-3122-3			
IC971	8-759-263-43	IC TA78M12S			
IC972	8-759-604-45	IC M5F79M12L			
IC973	8-759-604-35	IC M5F78M05L			
		< COIL >			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q602	8-749-010-43	IC NE-N250			
Q603	8-749-010-42	IC NE-P250			
Q651	8-729-026-08	TRANSISTOR 2SC4495			
Q661	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q662	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			

MAIN AMPLIFIER

Ref. No.	Part No.	Description	Remark
Q701	8-729-026-08	TRANSISTOR 2SC4495	
Q702	8-749-010-43	IC NE-N250	
Q703	8-749-010-42	IC NE-P250	
Q707	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q719	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q721	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q722	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q723	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q751	8-729-026-08	TRANSISTOR 2SC4495	
Q752	8-749-010-43	IC NE-N250	
Q753	8-749-010-42	IC NE-P250	
Q757	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q971	8-729-140-96	TRANSISTOR 2SD774-34	
Q972	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< RESISTOR >	
R608	1-249-431-11	CARBON 15K 5% 1/4W	
R617	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R618	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R619	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R620	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R622	1-249-431-11	CARBON 15K 5% 1/4W	
R623	1-249-431-11	CARBON 15K 5% 1/4W	
R651	1-249-417-11	CARBON 1K 5% 1/4W	F
R652	1-249-438-11	CARBON 56K 5% 1/4W	
R653	1-249-413-11	CARBON 470 5% 1/4W	F
R655	1-249-412-11	CARBON 390 5% 1/4W	F
R656	1-249-438-11	CARBON 56K 5% 1/4W	
R657	1-247-830-11	CARBON 910 5% 1/4W	
R658	1-249-411-11	CARBON 330 5% 1/4W	
⚠R659	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R660	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R661	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R662	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R663	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
⚠R664	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
R678	1-249-433-11	CARBON 22K 5% 1/4W	
R680	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R681	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R698	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R699	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R701	1-249-417-11	CARBON 1K 5% 1/4W	F
R702	1-249-438-11	CARBON 56K 5% 1/4W	
R703	1-249-413-11	CARBON 470 5% 1/4W	F
⚠R704	1-249-397-11	CARBON 22 5% 1/4W	F
R705	1-249-412-11	CARBON 390 5% 1/4W	F
R706	1-249-438-11	CARBON 56K 5% 1/4W	
R707	1-247-830-11	CARBON 910 5% 1/4W	
R708	1-249-411-11	CARBON 330 5% 1/4W	
⚠R709	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R710	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R711	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R712	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R713	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
⚠R714	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
R717	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R718	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R719	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R720	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R721	1-260-072-11	CARBON 4.7 5% 1/2W	
R722	1-249-431-11	CARBON 15K 5% 1/4W	
R723	1-249-431-11	CARBON 15K 5% 1/4W	
R724	1-247-688-11	CARBON 10 5% 1/4W	F (CND)
R724	1-260-076-11	CARBON 10 5% 1/2W	(US, E)
R725	1-249-417-11	CARBON 1K 5% 1/4W	F
R726	1-249-429-11	CARBON 10K 5% 1/4W	
R727	1-249-439-11	CARBON 68K 5% 1/4W	
R728	1-249-436-11	CARBON 39K 5% 1/4W	
R729	1-249-434-11	CARBON 27K 5% 1/4W	
R730	1-249-433-11	CARBON 22K 5% 1/4W	
R731	1-249-437-11	CARBON 47K 5% 1/4W	
R732	1-249-421-11	CARBON 2.2K 5% 1/4W	F
⚠R739	1-249-401-11	CARBON 47 5% 1/4W	F
⚠R740	1-249-401-11	CARBON 47 5% 1/4W	F
R744	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R745	1-249-421-11	CARBON 2.2K 5% 1/4W	F
⚠R747	1-249-415-11	CARBON 680 5% 1/4W	F
⚠R748	1-249-415-11	CARBON 680 5% 1/4W	F
R751	1-249-417-11	CARBON 1K 5% 1/4W	F
R752	1-249-438-11	CARBON 56K 5% 1/4W	
R753	1-249-413-11	CARBON 470 5% 1/4W	F
⚠R754	1-249-397-11	CARBON 22 5% 1/4W	F
R755	1-249-412-11	CARBON 390 5% 1/4W	F
R756	1-249-438-11	CARBON 56K 5% 1/4W	
R757	1-247-830-11	CARBON 910 5% 1/4W	
R758	1-249-411-11	CARBON 330 5% 1/4W	
⚠R759	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R760	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R761	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R762	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R763	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
⚠R764	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W	
R767	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R768	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R769	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R770	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R771	1-260-072-11	CARBON 4.7 5% 1/2W	
R772	1-249-431-11	CARBON 15K 5% 1/4W	

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MAIN AMPLIFIER | MUTING SWITCH | POWER SUPPLY

Ref.No.	Part No.	Description				Remark
R773	1-249-431-11	CARBON	15K	5%	1/4W	
R774	1-247-688-11	CARBON	10	5%	1/4W	F (CND)
R774	1-260-076-11	CARBON	10	5%	1/2W	(US, E)
R794	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R795	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R971	1-215-910-00	METAL OXIDE	68	5%	3W	F
⚠R972	1-215-909-11	METAL OXIDE	47	5%	3W	F
⚠R973	1-215-911-11	METAL	100	5%	3W	F
⚠R974	1-215-910-00	METAL OXIDE	68	5%	3W	F
⚠R975	1-249-409-11	CARBON	220	5%	1/4W	F
R976	1-249-426-11	CARBON	5.6K	5%	1/4W	
R977	1-249-421-11	CARBON	2.2K	5%	1/4W	F
		< RELAY >				
RY701	1-515-741-21	RELAY				

****

*	1-652-986-11	MUTING SWITCH BOARD	
		**********	
		< CONNECTOR >	
* CNJ101	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P	
		< DIODE >	
D109	8-719-301-49	LED	SEL2810A (-20dB)
D110	8-719-301-49	LED	SEL2810A (LOW BOOST)
		< RESISTOR >	
R106	1-249-410-11	CARBON 270	5% 1/4W F
R110	1-249-410-11	CARBON 270	5% 1/4W F
		< SWITCH >	
S113	1-554-303-21	SWITCH, TACTILE (MUTING)	
S120	1-554-303-21	SWITCH, TACTILE (LOW BOOST)	

****

*	A-4371-310-A	POWER SUPPLY BOARD, COMPLETE (US, CND)	
		**********	
*	A-4371-328-A	POWER SUPPLY BOARD, COMPLETE (E)	
		**********	
	1-533-293-11	FUSE HOLDER	
		< CAPACITOR >	
C950	1-124-557-11	ELECT 1000uF	20% 25V
C951	1-164-097-11	CERAMIC 0.022uF	50V
C952	1-164-097-11	CERAMIC 0.022uF	50V
C953	1-164-073-11	CERAMIC 100PF	10% 50V
C954	1-124-477-11	ELECT 47uF	20% 25V
C955	1-124-477-11	ELECT 47uF	20% 25V
C959	1-124-464-11	ELECT 0.22uF	20% 50V
C960	1-124-903-11	ELECT 1uF	20% 50V
C961	1-161-494-00	CERAMIC 0.022uF	25V
C962	1-161-494-00	CERAMIC 0.022uF	25V
		< CONNECTOR >	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
* CNP902	1-565-792-11	PIN, CONNECTOR 2P	
CNP903	1-568-106-11	PIN, CONNECTOR 4P (E)	
CNP904	1-691-771-11	PLUG (MICRO CONNECTOR) 9P	
⚠CNS901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET)	
		< DIODE >	
D951	8-719-987-63	DIODE	1N4148M
D952	8-719-987-63	DIODE	1N4148M
D953	8-719-987-63	DIODE	1N4148M
D954	8-719-024-99	DIODE	11ES2-NTA2B
D955	8-719-024-99	DIODE	11ES2-NTA2B
D956	8-719-024-99	DIODE	11ES2-NTA2B
D957	8-719-024-99	DIODE	11ES2-NTA2B
D958	8-719-933-41	DIODE	HZS6C3L
D959	8-719-985-53	DIODE	HZS4ALL
D961	8-719-933-41	DIODE	HZS6C3L
		< FUSE >	
⚠F902	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
		< TRANSISTOR >	
Q952	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q953	8-729-209-15	TRANSISTOR	2SD2012
Q954	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q955	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q956	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q958	8-729-119-79	TRANSISTOR	2SC2785-FEK
		< RESISTOR >	
⚠R901	1-202-725-00	SOLID 3.3M	10% 1/2W (US, CND)
R951	1-249-396-11	CARBON 18	5% 1/4W F
R952	1-249-417-11	CARBON 1K	5% 1/4W F
R954	1-249-433-11	CARBON 22K	5% 1/4W
R955	1-249-437-11	CARBON 47K	5% 1/4W
R956	1-249-425-11	CARBON 4.7K	5% 1/4W F
R957	1-249-429-11	CARBON 10K	5% 1/4W
R958	1-249-417-11	CARBON 1K	5% 1/4W F
R959	1-249-429-11	CARBON 10K	5% 1/4W
R960	1-249-429-11	CARBON 10K	5% 1/4W
R962	1-249-426-11	CARBON 5.6K	5% 1/4W
R963	1-249-417-11	CARBON 1K	5% 1/4W F

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POWER SUPPLY | POWER SWITCH

REAR AMPLIFIER (S) | SP.TERMINAL

Ref.No.	Part No.	Description				Remark
R964	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< RELAY >				
⚠RY901	1-515-701-11	RELAY (US, CND)				
⚠RY901	1-515-701-21	RELAY (E)				
		< TRANSFORMER >				
⚠T901	1-450-358-11	TRANSFORMER, POWER (E)				
⚠T901	1-450-361-11	TRANSFORMER, POWER (US, CND)				
		< SWITCH >				
⚠VS901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECT) (E)				
**********						
*	1-652-978-11	POWER SWITCH BOARD				
		**********				
		< SWITCH >				
S101	1-554-303-21	SWITCH, TACTILE (POWER ON/STANDBY)				
**********						
*	1-653-001-11	REAR AMPLIFIER (S) BOARD				
		**********				
		< CAPACITOR >				
C621	1-124-927-11	ELECT	4.7uF	20%	100V	
C622	1-164-073-11	CERAMIC	100PF	10%	50V	
C623	1-164-073-11	CERAMIC	100PF	10%	50V	
C624	1-124-925-11	ELECT	2.2uF	20%	100V	
C698	1-124-929-11	ELECT	22uF	20%	100V	
C699	1-124-929-11	ELECT	22uF	20%	100V	
		< CONNECTOR >				
CNP610	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
CNP620	1-691-765-21	PLUG (MICRO CONNECTOR) 3P				
		< IC >				
IC631	8-759-295-87	IC SI-18752-LM				
		< RESISTOR >				
R631	1-249-409-11	CARBON	220	5%	1/4W	F
R632	1-249-441-11	CARBON	100K	5%	1/4W	
R633	1-247-830-11	CARBON	910	5%	1/4W	
R634	1-249-439-11	CARBON	68K	5%	1/4W	
**********						

Ref.No.	Part No.	Description				Remark
*	A-4371-336-A	SP.TERMINAL BOARD, COMPLETE				
		**********				
		(INCLUDING SPEAKER (F) BOARD, SPEAKER JOINT BOARD, SPEAKER (C) BOARD)				
		< CAPACITOR >				
C605	1-136-157-00	FILM	0.022uF	5%	50V	
C663	1-136-157-00	FILM	0.022uF	5%	50V	
C963	1-124-618-11	ELECT	2200uF	20%	35V	
C965	1-126-413-11	ELECT	3300uF	20%	35V	
C996	1-164-097-11	CERAMIC	0.022uF		50V	
C997	1-164-097-11	CERAMIC	0.022uF		50V	
		< CONNECTOR >				
CNP652	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P				
CNP653	1-691-770-11	PLUG (MICRO CONNECTOR) 8P				
* CNP705	1-564-674-11	PIN, CONNECTOR 8P				
* CNP952	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
		< DIODE >				
D601	8-719-987-63	DIODE 1N4148M				
D641	8-719-987-63	DIODE 1N4148M				
D645	8-719-987-63	DIODE 1N4148M				
D970	8-719-312-09	DIODE RBA-402				
		< COIL >				
L601	1-420-872-00	COIL, AIR-CORE				
L651	1-420-872-00	COIL, AIR-CORE				
		< TRANSISTOR >				
Q614	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q643	8-729-119-79	TRANSISTOR 2SC2785-FEK				
		< RESISTOR >				
⚠R605	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R606	1-249-393-11	CARBON	10	5%	1/4W	F
R621	1-260-072-11	CARBON	4.7	5%	1/2W	
⚠R624	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R691	1-249-415-11	CARBON	680	5%	1/4W	F
⚠R692	1-249-415-11	CARBON	680	5%	1/4W	F
⚠R693	1-249-416-11	CARBON	820	5%	1/4W	F
⚠R694	1-249-416-11	CARBON	820	5%	1/4W	F
		< RELAY >				
RY641	1-515-765-11	RELAY				
RY643	1-515-741-21	RELAY				
		< SWITCH >				
S721	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECT)				

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SP.TERMINAL | SPEAKER SELECTOR | SURROUND

Ref.No.	Part No.	Description			Remark
		< TERMINAL >			
TM601	1-537-754-11	TERMINAL BOARD (6P) (REAR/CENTER SPEAKERS)			
* TM701	1-537-519-11	TERMINAL BOARD (SP) (FRONT SPEAKERS)			
**********					
*	1-652-980-11	SPEAKER SELECTOR BOARD **********			
		< CAPACITOR >			
C799	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CNP703	1-564-242-00	PIN, CONNECTOR 5P			
* CNP704	1-564-674-11	PIN, CONNECTOR 8P			
		< JACK >			
J700	1-750-162-41	JACK (LARGE TYPE) (HEADPHONES)			
		< RESISTOR >			
⚠R746	1-215-869-11	METAL OXIDE	1K	5% 1W	F
⚠R796	1-215-869-11	METAL OXIDE	1K	5% 1W	F
		< SWITCH >			
S701	1-572-911-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
**********					
*	A-4371-330-A	SURROUND BOARD, COMPLETE (US, CND) **********			
*	A-4371-331-A	SURROUND BOARD, COMPLETE (E) **********			
		< CAPACITOR >			
C201	1-161-379-00	CERAMIC	0.01uF	20%	25V
C202	1-124-477-11	ELECT	47uF	20%	25V
C203	1-161-379-00	CERAMIC	0.01uF	20%	25V
C204	1-124-903-11	ELECT	1uF	20%	50V
C206	1-104-905-11	CAP, DOUBLE LAYERS	0.22F		
C207	1-161-379-00	CERAMIC	0.01uF	20%	25V
C208	1-124-925-11	ELECT	2.2uF	20%	100V
C209	1-161-379-00	CERAMIC	0.01uF	20%	25V
C299	1-161-379-00	CERAMIC	0.01uF	20%	25V
C302	1-124-120-11	ELECT	220uF	20%	25V
C303	1-136-159-00	FILM	0.033uF	5%	50V
C304	1-130-473-00	MYLAR	0.0015uF	5%	50V
C305	1-136-159-00	FILM	0.033uF	5%	50V
C306	1-124-903-11	ELECT	1uF	20%	50V
C307	1-124-907-11	ELECT	10uF	20%	50V

Ref.No.	Part No.	Description			Remark
C308	1-124-907-11	ELECT	10uF	20%	50V
C309	1-162-286-31	CERAMIC	220PF	10%	50V
C310	1-124-927-11	ELECT	4.7uF	20%	100V
C311	1-124-925-11	ELECT	2.2uF	20%	100V
C312	1-161-379-00	CERAMIC	0.01uF	20%	25V
C315	1-136-159-00	FILM	0.033uF	5%	50V
C316	1-124-907-11	ELECT	10uF	20%	50V
C317	1-124-120-11	ELECT	220uF	20%	25V
C318	1-130-469-00	MYLAR	680PF	5%	50V
C320	1-164-159-11	CERAMIC	0.1uF		50V
C321	1-164-159-11	CERAMIC	0.1uF		50V
C322	1-124-927-11	ELECT	4.7uF	20%	100V
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-124-910-11	ELECT	47uF	20%	50V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C326	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-124-902-00	ELECT	0.47uF	20%	50V
C328	1-124-927-11	ELECT	4.7uF	20%	100V
C329	1-124-902-00	ELECT	0.47uF	20%	50V
C330	1-124-927-11	ELECT	4.7uF	20%	100V
C331	1-124-250-00	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-00	ELECT	0.15uF	20%	50V
C334	1-136-157-00	FILM	0.022uF	5%	50V
C335	1-136-161-00	MYLAR	0.0047uF	5%	50V
C336	1-124-120-11	ELECT	220uF	20%	25V
C337	1-124-907-11	ELECT	10uF	20%	50V
C338	1-124-907-11	ELECT	10uF	20%	50V
C339	1-124-907-11	ELECT	10uF	20%	50V
C340	1-124-907-11	ELECT	10uF	20%	50V
C341	1-124-120-11	ELECT	220uF	20%	25V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-136-165-00	FILM	0.1uF	5%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-124-902-00	ELECT	0.47uF	20%	50V
C347	1-124-927-11	ELECT	4.7uF	20%	100V
C348	1-124-902-00	ELECT	0.47uF	20%	50V
C349	1-124-927-11	ELECT	4.7uF	20%	100V
C350	1-124-250-00	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-00	ELECT	0.15uF	20%	50V
C355	1-164-159-11	CERAMIC	0.1uF		50V
C356	1-164-159-11	CERAMIC	0.1uF		50V
C358	1-161-379-00	CERAMIC	0.01uF	20%	25V
C359	1-124-927-11	ELECT	4.7uF	20%	100V
C360	1-124-927-11	ELECT	4.7uF	20%	100V
C401	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-136-171-00	FILM	0.33uF	5%	50V
C405	1-136-159-00	FILM	0.033uF	5%	50V

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SURROUND

Ref.No.	Part No.	Description			Remark
C404	1-136-171-00	FILM	0.33uF	5%	50V
C405	1-136-159-00	FILM	0.033uF	5%	50V
C406	1-124-927-11	ELECT	4.7uF	20%	100V
C407	1-162-209-31	CERAMIC	27PF	5%	50V
C408	1-124-477-11	ELECT	47uF	20%	25V
C409	1-164-159-11	CERAMIC	0.1uF		50V
C410	1-124-477-11	ELECT	47uF	20%	25V
C411	1-136-154-00	FILM	0.012uF	5%	50V
C412	1-136-163-00	FILM	0.068uF	5%	50V
C413	1-130-476-00	MYLAR	0.0027uF	5%	50V
C414	1-124-907-11	ELECT	10uF	20%	50V
C415	1-136-157-00	FILM	0.022uF	5%	50V
C416	1-124-927-11	ELECT	4.7uF	20%	100V
C454	1-136-171-00	FILM	0.33uF	5%	50V
C455	1-136-159-00	FILM	0.033uF	5%	50V
C456	1-124-927-11	ELECT	4.7uF	20%	100V
C457	1-162-209-31	CERAMIC	27PF	5%	50V
C458	1-124-477-11	ELECT	47uF	20%	25V
C459	1-164-159-11	CERAMIC	0.1uF		50V
C460	1-124-477-11	ELECT	47uF	20%	25V
C461	1-136-154-00	FILM	0.012uF	5%	50V
C462	1-136-163-00	FILM	0.068uF	5%	50V
C463	1-130-476-00	MYLAR	0.0027uF	5%	50V
C464	1-124-907-11	ELECT	10uF	20%	50V
C465	1-136-157-00	FILM	0.022uF	5%	50V
C821	1-124-120-11	ELECT	220uF	20%	25V
C822	1-124-477-11	ELECT	47uF	20%	25V
		< CERAMIC FILTER >			
CF201	1-567-776-41	VIBRATOR, CERAMIC (6MHz)			
		< CONNECTOR >			
CNP201	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP202	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
* CNP203	1-764-210-11	CONNECTOR, BOARD TO BOARD 12P			
CNS201	1-764-932-11	CONNECTOR, FFC(LIF(NON-ZIF))27P			
		< DIODE >			
D202	8-719-987-63	DIODE 1N4148M			
D204	8-719-987-63	DIODE 1N4148M			
D205	8-719-987-63	DIODE 1N4148M			
D542	8-719-987-63	DIODE 1N4148M			
D817	8-719-001-30	DIODE UZL-9H3			
		< FRONTEND >			
FE201	1-239-611-21	ENCAPSULATED COMPONENT (E)			
FE201	1-239-727-21	ENCAPSULATED COMPONENT (FCC)(US,CND)			
		< IC >			
IC201	8-759-820-62	IC LB1639			
IC202	8-759-264-78	IC uPD75518GF-195-3B9			
IC300	8-759-168-98	IC LV1010N			
IC301	8-759-248-74	IC LA2785			
IC302	8-759-634-51	IC M5218AP			
IC401	8-759-072-32	IC TC9184P			
IC402	8-759-634-51	IC M5218AP			
		< COIL >			
L201	1-410-521-11	INDUCTOR 100uH			
L301	1-410-521-11	INDUCTOR 100uH			
L302	1-410-521-11	INDUCTOR 100uH			
		< TRANSISTOR >			
Q201	8-729-900-63	TRANSISTOR DTA124ES			
Q202	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q210	8-729-900-63	TRANSISTOR DTA124ES			
Q211	8-729-900-63	TRANSISTOR DTA124ES			
Q213	8-729-900-63	TRANSISTOR DTA124ES			
Q305	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q306	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q307	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q308	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q403	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q453	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q808	8-729-180-92	TRANSISTOR 2SD809-K			
		< RESISTOR >			
R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-247-807-31	CARBON	100	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-249-429-11	CARBON	10K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-425-11	CARBON	4.7K	5%	1/4W F
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-421-11	CARBON	2.2K	5%	1/4W F
R212	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-249-423-11	CARBON	3.3K	5%	1/4W F
R214	1-249-433-11	CARBON	22K	5%	1/4W
R215	1-249-425-11	CARBON	4.7K	5%	1/4W F
R216	1-249-429-11	CARBON	10K	5%	1/4W
R217	1-249-429-11	CARBON	10K	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W

SURROUND | SURROUND JOINT

Ref.No.	Part No.	Description				Remark
R220	1-249-429-11	CARBON	10K	5%	1/4W	
R221	1-249-429-11	CARBON	10K	5%	1/4W	
R222	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R231	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R232	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R233	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R234	1-249-417-11	CARBON	1K	5%	1/4W	F
R235	1-249-417-11	CARBON	1K	5%	1/4W	F
R244	1-249-437-11	CARBON	47K	5%	1/4W	
R245	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-437-11	CARBON	47K	5%	1/4W	
R250	1-249-413-11	CARBON	470	5%	1/4W	F
R300	1-247-903-00	CARBON	1M	5%	1/4W	
R301	1-249-413-11	CARBON	470	5%	1/4W	F
R302	1-249-431-11	CARBON	15K	5%	1/4W	
R306	1-249-433-11	CARBON	22K	5%	1/4W	
R307	1-249-436-11	CARBON	39K	5%	1/4W	
R350	1-249-413-11	CARBON	470	5%	1/4W	F
R353	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R354	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R355	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R356	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-429-11	CARBON	10K	5%	1/4W	
R360	1-249-429-11	CARBON	10K	5%	1/4W	
R361	1-249-433-11	CARBON	22K	5%	1/4W	
R362	1-249-432-11	CARBON	18K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-249-441-11	CARBON	100K	5%	1/4W	
R398	1-249-417-11	CARBON	1K	5%	1/4W	F
R401	1-247-903-00	CARBON	1M	5%	1/4W	
R402	1-249-433-11	CARBON	22K	5%	1/4W	
R403	1-249-431-11	CARBON	15K	5%	1/4W	
R404	1-249-441-11	CARBON	100K	5%	1/4W	
R405	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R406	1-247-883-00	CARBON	150K	5%	1/4W	
R407	1-249-412-11	CARBON	390	5%	1/4W	F
R408	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R409	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R410	1-249-440-11	CARBON	82K	5%	1/4W	
R411	1-247-895-00	CARBON	470K	5%	1/4W	
R412	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R413	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R414	1-247-897-11	CARBON	560K	5%	1/4W	
R415	1-249-436-11	CARBON	39K	5%	1/4W	
R416	1-249-434-11	CARBON	27K	5%	1/4W	
R417	1-249-426-11	CARBON	5.6K	5%	1/4W	
R418	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R419	1-249-417-11	CARBON	1K	5%	1/4W	F
R420	1-247-807-31	CARBON	100	5%	1/4W	
R421	1-249-417-11	CARBON	1K	5%	1/4W	F
R426	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R427	1-249-441-11	CARBON	100K	5%	1/4W	
R452	1-249-433-11	CARBON	22K	5%	1/4W	
R453	1-249-431-11	CARBON	15K	5%	1/4W	
R454	1-249-441-11	CARBON	100K	5%	1/4W	
R455	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R456	1-247-883-00	CARBON	150K	5%	1/4W	
R457	1-249-412-11	CARBON	390	5%	1/4W	F
R458	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R459	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R460	1-249-440-11	CARBON	82K	5%	1/4W	
R461	1-247-895-00	CARBON	470K	5%	1/4W	
R462	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R463	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R464	1-247-897-11	CARBON	560K	5%	1/4W	
R465	1-249-436-11	CARBON	39K	5%	1/4W	
R466	1-249-434-11	CARBON	27K	5%	1/4W	
R467	1-249-426-11	CARBON	5.6K	5%	1/4W	
R468	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R469	1-249-417-11	CARBON	1K	5%	1/4W	F
R470	1-247-807-31	CARBON	100	5%	1/4W	
R476	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R477	1-249-441-11	CARBON	100K	5%	1/4W	
R822	1-247-811-31	CARBON	150	5%	1/4W	

< TERMINAL >

TM201	1-537-769-11	TERMINAL BOARD (ANTENNA)

< VIBRATOR >

X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)

****

*	1-652-985-11	SURROUND JOINT BOARD

****

< CONNECTOR >

CNP503	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P
CNP504	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P
CNS201	1-695-093-11	SOCKET, CONNECTOR 9P
CNS202	1-695-093-11	SOCKET, CONNECTOR 9P

****

TRANSFORMER TERMINAL (1-1) TRANSFORMER TERMINAL (1-2) TRANSFORMER TERMINAL (2) VIDEO

Ref. No.	Part No.	Description	Remark
*	1-652-998-11	TRANSFORMER TERMINAL(1-1) BOARD (US, CND)	
		**********	
**********			
*	1-652-999-11	TRANSFORMER TERMINAL(1-2) BOARD	
		**********	
	1-532-293-11	FUSE HOLDER	
		< CONNECTOR >	
CNP971	1-564-506-11	PLUG, CONNECTOR 3P	
* CNP972	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
CNP973	1-564-321-00	PIN, CONNECTOR 2P (US, CND)	
		< DIODE >	
D962	8-719-014-66	DIODE UZP-5.6B	
		< FUSE >	
⚠F951	1-532-299-00	TIME LAG FUSE (T5AL 250V) (E)	
⚠F951	1-576-109-11	FUSE (5A 125V) (US, CND)	
⚠F953	1-532-299-00	TIME LAG FUSE (T5AL 250V) (E)	
⚠F953	1-576-109-11	FUSE (5A 125V) (US, CND)	
**********			
*	1-653-000-11	TRANSFORMER TERMINAL (2) BOARD	
		**********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
* CNP970	1-564-242-00	PIN, CONNECTOR 5P	
		< DIODE >	
D966	8-719-987-63	DIODE 1N4148M	
D967	8-719-987-63	DIODE 1N4148M (CND)	
		< FUSE >	
⚠F954	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F955	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
		< RESISTOR >	
⚠R980	1-249-413-11	CARBON 470 5% 1/4W F	
⚠R981	1-249-413-11	CARBON 470 5% 1/4W F	
⚠R982	1-249-413-11	CARBON 470 5% 1/4W F	(CND)
⚠R983	1-249-413-11	CARBON 470 5% 1/4W F	(CND)

Ref. No.	Part No.	Description	Remark
		< RELAY >	
RY951	1-515-894-11	RELAY (US, E)	
RY952	1-515-918-11	RELAY (CND)	
RY953	1-515-918-11	RELAY (CND)	
**********			
*	1-652-992-11	VIDEO BOARD	
		**********	
		< CAPACITOR >	
C251	1-124-472-11	ELECT 470uF 20% 10V	
C252	1-124-927-11	ELECT 4.7uF 20% 100V	
C253	1-124-472-11	ELECT 470uF 20% 10V	
C254	1-124-927-11	ELECT 4.7uF 20% 100V	
C255	1-124-472-11	ELECT 470uF 20% 10V	
C256	1-124-927-11	ELECT 4.7uF 20% 100V	
C257	1-124-927-11	ELECT 4.7uF 20% 100V	
C259	1-124-927-11	ELECT 4.7uF 20% 100V	
C260	1-161-494-00	CERAMIC 0.022uF 25V	
C278	1-124-927-11	ELECT 4.7uF 20% 100V	
		< CONNECTOR >	
CNP241	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P	
CNP250	1-750-179-11	SOCKET, CONNECTOR 5P	
		< IC >	
IC251	8-759-061-95	IC SN761200N	
		< JACK >	
J201	1-766-199-11	JACK, PIN 3P (VIDEO 2/LD/TV IN-VIDEO)	
* J202	1-695-317-11	JACK, PIN 2P (VIDEO 1 IN, VIDEO 2 OUT-VIDEO)	
* J203	1-695-317-11	JACK, PIN 2P (VIDEO 1 OUT, MONITOR OUT-VIDEO)	
		< COIL >	
L251	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q251	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q252	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q253	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q254	8-729-900-63	TRANSISTOR DTA124ES	
		< RESISTOR >	
R251	1-249-403-11	CARBON 68 5% 1/4W F	
R252	1-249-429-11	CARBON 10K 5% 1/4W	
R253	1-247-804-11	CARBON 75 5% 1/4W	
R254	1-249-403-11	CARBON 68 5% 1/4W F	
R255	1-249-429-11	CARBON 10K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
R256	1-247-804-11	CARBON	75	5%	1/4W	
R257	1-249-403-11	CARBON	68	5%	1/4W	F
R258	1-249-429-11	CARBON	10K	5%	1/4W	
R259	1-247-804-11	CARBON	75	5%	1/4W	
R260	1-247-804-11	CARBON	75	5%	1/4W	
R261	1-247-811-31	CARBON	150	5%	1/4W	
R262	1-247-807-31	CARBON	100	5%	1/4W	
R263	1-247-811-31	CARBON	150	5%	1/4W	
R264	1-247-807-31	CARBON	100	5%	1/4W	
R265	1-247-811-31	CARBON	150	5%	1/4W	
R266	1-247-807-31	CARBON	100	5%	1/4W	

****

* 1-652-981-11 VIDEO-3 BOARD
****

< CONNECTOR >

CNJ207 1-766-206-11 JACK, PIN 3P (VIDEO 3 INPUT)
* CNP230 1-564-520-11 PLUG, CONNECTOR 5P

< RESISTOR >

R250	1-247-804-11	CARBON	75	5%	1/4W	
R537	1-249-417-11	CARBON	1K	5%	1/4W	F
R587	1-249-417-11	CARBON	1K	5%	1/4W	F

****

* 1-652-982-11 VOLUME BOARD
****

< CAPACITOR >

C598	1-124-903-11	ELECT	1uF	20%	50V
C599	1-124-903-11	ELECT	1uF	20%	50V

< CONNECTOR >

CNP551 1-568-672-11 CONNECTOR, BOARD TO BOARD 12P
CNP552 1-691-769-11 PLUG (MICRO CONNECTOR) 7P

< RESISTOR >

R599	1-249-409-11	CARBON	220	5%	1/4W	F

< VARIABLE RESISTOR >

RV503 1-241-816-11 RES, VAR, CARBON 100KX4 (MASTER VOLUME)

****

MISCELLANEOUS
****

11 1-765-300-11 WIRE (FLAT TYPE) (13 CORE)
12 1-765-308-11 WIRE (FLAT TYPE) (27 CORE)

Ref. No.	Part No.	Description	Remark
⚠51	1-575-975-11	CORD, POWER (US, CND)	
⚠51	1-590-074-11	CORD, POWER (E)	
⚠52	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠54	1-769-077-31	LEAD (WITH CONNECTOR) (2 CORE) (US, CND)	
⚠F902	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V) (E)	
⚠F951	1-532-299-00	TIME LAG FUSE (T5AL 250V) (E)	
⚠F951	1-576-109-11	FUSE (5A 125V) (US, CND)	
⚠F953	1-532-299-00	FUSE TIME LAG FUSE (T5AL 250V) (E)	
⚠F953	1-576-109-11	FUSE (5A 125V) (US, CND)	
⚠F954	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
⚠F955	1-532-506-51	TIME LAG FUSE (T6.3AL 250V) (E)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (US, CND)	
IC631	8-759-502-33	IC SI-18752	
Q602	8-749-010-43	IC NE-N250	
Q603	8-749-010-42	IC NE-P250	
Q651	8-729-026-08	TRANSISTOR 2SC4495	
Q701	8-729-026-08	TRANSISTOR 2SC4495	
Q702	8-749-010-43	IC NE-N250	
Q703	8-749-010-42	IC NE-P250	
Q751	8-729-026-08	TRANSISTOR 2SC4495	
Q752	8-749-010-43	IC NE-N250	
Q753	8-749-010-42	IC NE-P250	
⚠T902	1-426-880-11	TRANSFORMER, POWER (US)	
⚠T902	1-426-881-11	TRANSFORMER, POWER (CND)	
⚠T902	1-426-882-11	TRANSFORMER, POWER (E)	

****

ACCESSORIES & PACKING MATERIALS
****

1-467-638-11 REMOTE COMMANDER (RM-P341)
1-501-374-11 ANTENNA, LOOP
3-758-873-11 MANUAL, INSTRUCTION
(ENGLISH, FRENCH, SPANISH, CHINESE) (E)
3-758-873-21 MANUAL, INSTRUCTION (ENGLISH) (US, CND)
3-758-873-31 MANUAL, INSTRUCTION (FRENCH) (CND)

4-925-079-11 COVER (6), BATTERY (RM-P341)
4-933-001-01 CUSHION
* 4-967-070-01 INDIVIDUAL CARTON

****

****
HARDWARE LIST
****

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
#2	7-682-547-09	SCREW +BVTT 3X6 (S)
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3
#4	7-682-561-04	SCREW +BVTT 4X8 (S)
#5	7-682-548-04	SCREW +BVTT 3X8 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la securité. Ne les remplacer que par une pièce portant le numero specifié.

9-959-654-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
94G097048-1
Printed in Singapore
© 1994. 7
Published by Home A&V Products Div.
Quality Engineering Dept.

STR-D1015

SONY

SERVICE MANUAL

US Model
Canadian Model
E Model
Chinese Model

SUPPLEMENT-1

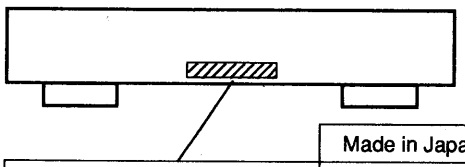
File this supplement with the service manual.

Subject : 1. Malaysia production model
2. Model Addition (Chinese model)
3. Circuit and parts changed (For Japan production)
4. Correction

(ECN-TA404816/TA500331)

How to identify production which made in Malaysia.

— BACK PANEL —



	Made in Japan	Made in Malaysia
STR-D1015 (US model)	4-966-945-0□	4-971-863-0□
STR-D1015 (Canadian model)	4-966-945-1□	4-971-863-1□
STR-D1015 (E model)	4-966-945-2□	4-971-863-2□
STR-D1015 (Chinese model)	————	4-971-863-3□

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviations
  CND : Canadian model
  CH : Chinese model

1. Malaysia production model

- There is no changeability between the following boards which made in Japan and Malaysia.
  Referring to "How to identify production ..." (page 1), use the appropriate boards.
  Therefore, Refer to the service manual for the information which is not contained in this service manual.

Difference between productions made in Japan and Malaysia

BOARD	Made in Japan	Made in Malaysia
AUDIO INPUT	* A-4371-324-A	* A-4377-315-A
DISPLAY	* A-4371-301-A (US, CND) * A-4371-302-A (E)	* A-4377-306-A (US, CND) * A-4377-443-A (E)
MAIN AMPLIFIER	* A-4371-333-A (US, E) * A-4371-334-A (CND)	* A-4377-302-A (US, E) * A-4377-303-A (CND)
POWER SUPPLY	* A-4371-310-A (US, CND) * A-4371-328-A (E)	* A-4377-313-A (US, CND) * A-4377-444-A (E)
SP. TERMINAL	* A-4371-336-A	* A-4377-286-A
SURROUND	* A-4371-330-A (US, CND) * A-4371-331-A (E)	* A-4377-301-A (US, CND) * A-4377-445-A (E)
VIDEO INPUT	* A-4371-335-A	* A-4377-285-A

EXPLODED VIEWS

- There followings shows differences between productions made in Japan and malaysia.
  Referring to "How to identify production ..." (page 1), use the appropriate parts.

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
43	3	X-4942-296-1	KNOB ASSY	3	4-949-659-01	KNOB (VOL-NEW)
	4	4-908-097-21	KNOB	4	4-957-383-01	KNOB (F14)
	* 9	A-4371-301-A	DISPLAY BOARD, COMPLETE (US, CND)	* 9	A-4377-306-A	DISPLAY BOARD, COMPLETE (US, CND)
	* 9	A-4371-302-A	DISPLAY BOARD, COMPLETE (E)	* 9	A-4377-443-A	DISPLAY BOARD, COMPLETE (E)
	13	4-956-885-01	FOOT (F58175S2W)	13	X-4941-291-1	FOOT ASSY (F58175S)
44	⚠51	1-575-975-11	CORD, POWER (US, CND)	⚠51	1-690-609-21	CORD, POWER (US, CND)
	⚠51	1-590-074-11	CORD, POWER (E)	⚠51	1-575-653-11	CORD, POWER (E)
	* 53	3-703-244-00	BUSHING (2104), CORD	* 53	3-703-571-11	BUSHING (S) (4516), CORD
	* 55	A-4371-336-A	SP. TERMINAL BOARD, COMPLETE	* 55	A-4377-286-A	SP. TERMINAL BOARD, COMPLETE
	* 58	4-966-945-01	PANEL, BACK (US)	* 58	4-971-863-01	PANEL, BACK (US)
	* 58	4-966-945-11	PANEL, BACK (CND)	* 58	4-971-863-11	PANEL, BACK (CND)
	* 58	4-966-945-21	PANEL, BACK (E)	* 58	4-971-863-21	PANEL, BACK (E)
	* 59	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE	* 59	A-4377-315-A	AUDIO INPUT BOARD, COMPLETE
	* 61	A-4371-335-A	VIDEO INPUT BOARD, COMPLETE	* 61	A-4377-285-A	VIDEO INPUT BOARD, COMPLETE
	* 66	A-4371-330-A	SURROUND BOARD, COMPLETE (US, CND)	* 66	A-4377-301-A	SURROUND BOARD, COMPLETE (US, CND)
	* 66	A-4371-331-A	SURROUND BOARD, COMPLETE (E)	* 66	A-4377-445-A	SURROUND BOARD, COMPLETE (E)

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
45	* 104	A-4371-333-A	MAIN AMPLIFIER BOARD, COMPLETE (US, E)	* 104	A-4377-302-A	MAIN AMPLIFIER BOARD, COMPLETE (US, E, CH)
	* 104	A-4371-334-A	MAIN AMPLIFIER BOARD, COMPLETE (CND)	* 104	A-4377-303-A	MAIN AMPLIFIER BOARD, COMPLETE (CND)
	* 108	A-4371-310-A	POWER SUPPLY BOARD, COMPLETE (US, CND)	* 108	A-4377-313-A	POWER SUPPLY BOARD, COMPLETE (US, CND)
	* 108	A-4371-328-A	POWER SUPPLY BOARD, COMPLETE (E)	* 108	A-4377-444-A	POWER SUPPLY BOARD, COMPLETE (E)

ELECTRICAL PARTS LIST

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
46	*	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE ********** (INDLUDING AUDIO (A) BOARD, AUDIO JOINT BOARD, AUDIO (V) BOARD)	*	A-4377-315-A	AUDIO INPUT BOARD, COMPLETE ********** (INDLUDING AUDIO (A) BOARD, AUDIO JOINT BOARD, AUDIO (V) BOARD)
47	*	A-4371-301-A	DISPLAY BOARD, COMPLETE (US, CND) **********	*	A-4377-306-A	DISPLAY BOARD, COMPLETE (US, CND) **********
	*	A-4371-302-A	DISPLAY BOARD, COMPLETE (E) **********	*	A-4377-443-A	DISPLAY BOARD, COMPLETE (E) **********
48	*	A-4371-333-A	MAIN AMPLIFIER BOARD, COMPLETE ********** (US, E)	*	A-4377-302-A	MAIN AMPLIFIER BOARD, COMPLETE ********** (US, E)
	*	A-4371-334-A	MAIN AMPLIFIER BOARD, COMPLETE ********** (CND)	*	A-4377-303-A	MAIN AMPLIFIER BOARD, COMPLETE ********** (CND)
		4-969-002-01	SPACER (DIA. 29)		4-970-497-01	SPACER (29)
51	*	A-4371-310-A	POWER SUPPLY BOARD, COMPLETE ********** (US, CND)	*	A-4377-313-A	POWER SUPPLY BOARD, COMPLETE ********** (US, CND)
	*	A-4371-328-A	POWER SUPPLY BOARD, COMPLETE (E) **********	*	A-4377-444-A	POWER SUPPLY BOARD, COMPLETE (E) **********
	C950	1-124-557-11	ELECT 1000uF 20% 25V	C950	1-126-942-61	ELECT 1000uF 20% 25V
52	*	A-4371-336-A	SP. TERMINAL BOARD, COMPLETE ********** (INCLUDING SPEAKER (F) BOARD, SPEAKER JOINT BOARD, SPEAKER (C) BOARD)	*	A-4377-286-A	SP. TERMINAL BOARD, COMPLETE ********** (INCLUDING SPEAKER (F) BOARD, SPEAKER JOINT BOARD, SPEAKER (C) BOARD)
53	*	A-4371-330-A	SURROUND BOARD, COMPLETE (US, CND) **********	*	A-4377-301-A	SURROUND BOARD, COMPLETE (US, CND) **********
	*	A-4371-331-A	SURROUND BOARD, COMPLETE (E) **********	*	A-4377-445-A	SURROUND BOARD, COMPLETE (E) **********
56			** TRANSFORMER TERMINAL (2) BOARD **			** TRANSFORMER TERMINAL (2) BOARD **
	RY951	1-515-894-11	RELAY (US, E)	RY951	1-755-026-11	RELAY (US, E)
	*	A-4371-335-A	VIDEO INPUT BOARD, COMPLETE **********	*	A-4377-285-A	VIDEO INPUT BOARD, COMPLETE **********
57			ACCESSORIES & PACKING MATERIALS **********			ACCESSORIES & PACKING MATERIALS **********
		3-758-873-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E)		3-798-563-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E)
		3-758-873-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND)		3-798-563-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND)
		3-758-873-31	MANUAL, INSTRUCTION (FRENCH) (CND)		3-798-563-31	MANUAL, INSTRUCTION (FRENCH) (CND)
					3-798-563-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (CH)
	*	4-933-001-01	CUSHION	*	4-972-386-01	CUSHION
	*	4-967-070-01	INDIVIDUAL CARTON	*	4-972-387-01	INDIVIDUAL CARTON

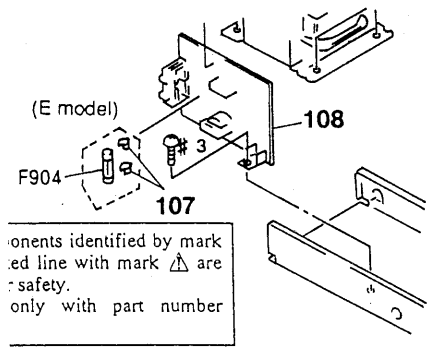
2. Model Addition (Chinese model)

- For detailed Chinese model, refer to E model.

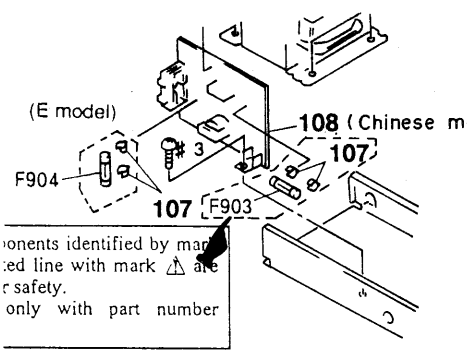
Difference Table

EXPLODED VIEWS

Page	E model			Chinese model		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
43	3	X-4942-296-1	KNOB ASSY	3	4-949-659-01	KNOB (VOL-NEW)
	4	4-908-097-21	KNOB	4	4-957-383-01	KNOB (F14)
	* 9	A-4371-302-A	DISPLAY BOARD, COMPLETE	* 9	A-4378-038-A	DISPLAY BOARD, COMPLETE
	13	4-956-885-01	FOOT (F58175S2W)	13	X-4941-291-1	FOOT ASSY (F58175S)
44	⚠51	1-590-074-11	CORD, POWER	⚠51	1-575-651-11	CORD, POWER
	⚠54			⚠54	1-769-078-31	LEAD (WITH CONNECTOR) (2 CORE)
	* 55	A-4371-336-A	SP. TERMINAL BOARD, COMPLETE	* 55	A-4378-036-A	SP. TERMINAL BOARD, COMPLETE
	* 58	4-966-945-21	PANEL, BACK	* 58	4-971-863-31	PANEL, BACK
	* 59	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE	* 59	A-4377-315-A	AUDIO INPUT BOARD, COMPLETE
	* 61	A-4371-335-A	VIDEO INPUT BOARD, COMPLETE	* 61	A-4377-285-A	VIDEO INPUT BOARD, COMPLETE
	* 66	A-4371-331-A	SURROUND BOARD, COMPLETE	* 66	A-4378-307-A	SURROUND BOARD, COMPLETE
45	* 104	A-4371-333-A	MAIN AMPLIFIER BOARD, COMPLETE	* 104	A-4377-302-A	MAIN AMPLIFIER BOARD, COMPLETE
	* 108	A-4371-328-A	POWER SUPPLY BOARD, COMPLETE	* 108	A-4378-039-A	POWER SUPPLY BOARD, COMPLETE
	⚠F903			⚠F903	1-532-286-00	FUSE (T2.5AL 250V)
	⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V)	⚠F904		
	⚠T902	1-426-882-11	TRANSFORMER, POWER	⚠T902	1-427-931-11	TRANSFORMER, POWER



onents identified by mark
ed line with mark ⚠ are
safety.
only with part number



onents identified by mar
ed line with mark ⚠ are
safety.
only with part number

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

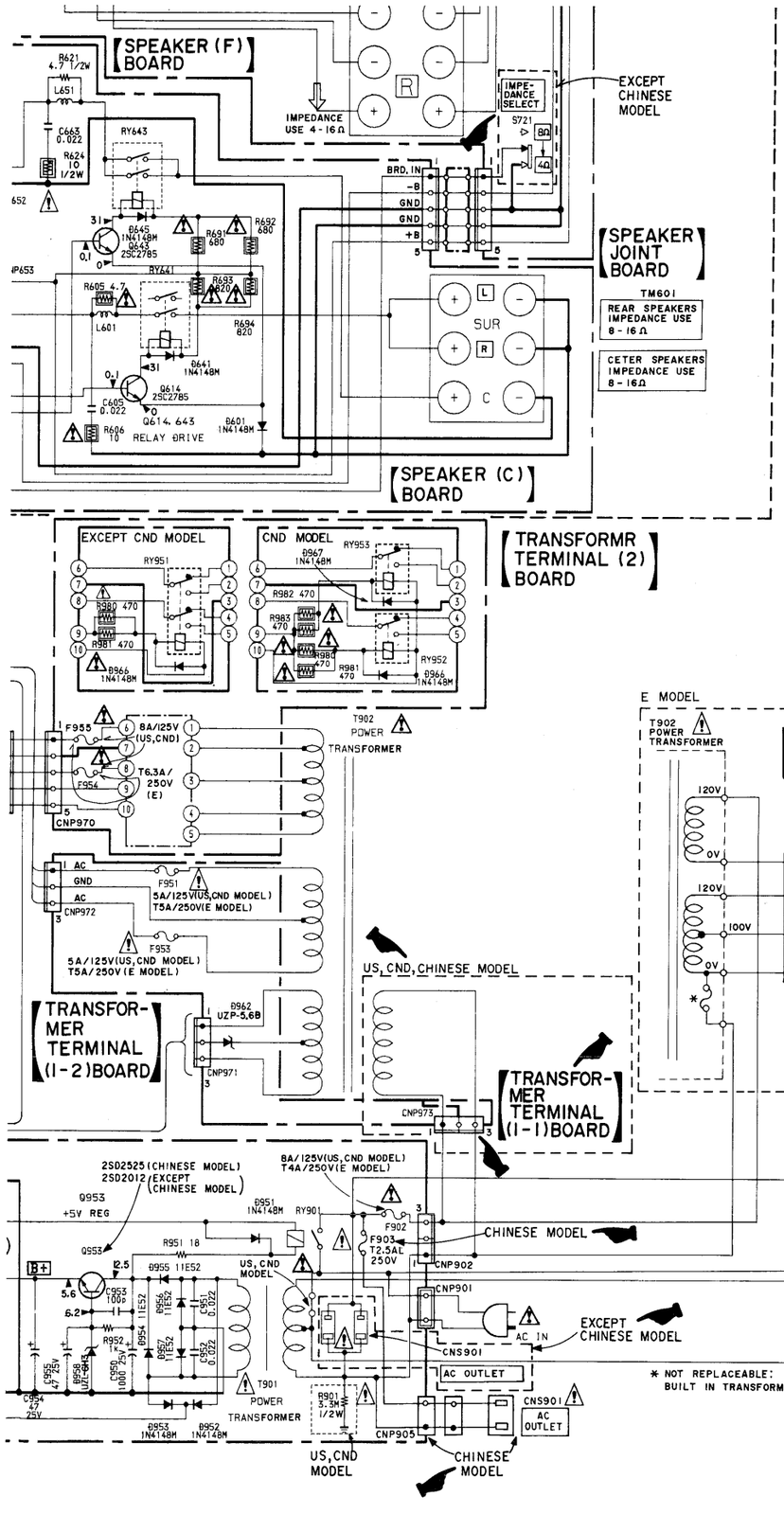
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

ELECTRICAL PARTS LIST

Page	E model	Chinese model
	Ref. No. Part No. Description	Ref. No. Part No. Description
46	* A-4371-324-A AUDIO INPUT BOARD, COMPLETE **********	* A-4377-315-A AUDIO INPUT BOARD, COMPLETE **********
47	* A-4371-302-A DISPLAY BOARD, COMPLETE ********** D135 ————	* A-4378-038-A DISPLAY BOARD, COMPLETE ********** D135 8-719-987-63 DIODE 1N4148M
48	* A-4371-333-A MAIN AMPLIFIER BOARD, COMPLETE **********	* A-4377-302-A MAIN AMPLIFIER BOARD, COMPLETE **********
51	* A-4371-328-A POWER SUPPLY BOARD, COMPLETE ********** C950 1-124-557-11 ELECT 1000uF 20% 25V CNP903 1-568-106-11 PIN, CONNECTOR 4P CNP905 ———— ⚠CNS901 1-540-060-11 OUTLET, AC (POLAR) (AC OUTLET) ⚠F903 ———— ⚠F904 1-532-350-00 TIME LAG FUSE (T4AL 250V) Q953 8-729-209-15 TRANSISTOR 2SD2012	* A-4378-039-A POWER SUPPLY BOARD, COMPLETE ********** C950 1-126-942-61 ELECT 1000uF 20% 25V CNP903 ———— CNP905 1-580-230-11 PIN, CONNECTOR (PC BOARD) 2P ⚠CNS901 1-526-794-11 OUTLET, AC (AC OUTLET) ⚠F903 1-532-286-00 FUSE (T2.5AL 250V) ⚠F904 ———— Q953 8-729-030-18 TRANSISTOR 2SD2525
52	** POWER SUPPLY BOARD ** ⚠VS901 1-571-437-11 SWITCH, TACTILE (POWER ON/STANDBY) * A-4371-336-A SP. TERMINAL BOARD, COMPLETE ********** ** SPEAKER (F) BOARD ** S721 1-692-196-11 SWITCH, SLIDE (IMPEDANCE SELECT)	** POWER SUPPLY BOARD ** ⚠VS901 ———— * A-4378-036-A SP. TERMINAL BOARD, COMPLETE ********** ** SPEAKER (F) BOARD ** S721 ————
53	TM601 1-537-754-11 TERMINAL BOARD (6P) (REAR/CENTER SPEAKERS) * TM701 1-537-519-11 TERMINAL BOARD (SP) (FRONT SPEAKERS) * A-4371-331-A SURROUND BOARD, COMPLETE **********	TM601 1-537-755-11 TERMINAL BOARD (6P) (REAR/CENTER SPEAKERS) * TM701 1-537-766-11 TERMINAL BOARD (SP) (FRONT SPEAKERS) * A-4378-037-A SURROUND BOARD, COMPLETE **********
55	TM201 1-537-769-11 TERMINAL BOARD	TM201 1-537-488-11 TERMINAL BOARD (ANT)
56	———— ** TRANSFORMER TERMINAL (1-2) BOARD ** CNP973 ———— ** TRANSFORMER TERMINAL (2) BOARD ** RY951 1-515-894-11 RELAY * A-4371-335-A VIDEO INPUT BOARD, COMPLETE **********	* 1-652-998-11 TRANSFORMER TERMINAL (1-1) BOARD ********** ** TRANSFORMER TERMINAL (1-2) BOARD ** CNP973 1-564-321-00 PIN, CONNECTOR 2P ** TRANSFORMER TERMINAL (2) BOARD ** RY951 1-755-026-11 RELAY * A-4377-285-A VIDEO INPUT BOARD, COMPLETE **********
57	MISCELLANEOUS ********** ⚠51 1-590-074-11 CORD, POWER ⚠54 ———— ⚠CNS901 1-540-060-11 OUTLET, AC (POLAR) (AC OUTLET) ⚠F903 ———— ⚠F904 1-532-350-00 TIME LAG FUSE (T4AL 250V) ⚠T902 1-426-882-11 TRANSFORMER, POWER	MISCELLANEOUS ********** ⚠51 1-575-651-11 CORD, POWER ⚠54 1-769-078-31 LEAD (WITH CONNECTOR) (2 CORE) ⚠CNS901 1-526-794-11 OUTLET, AC (AC OUTLET) ⚠F903 1-532-286-00 FUSE (T2.5AL 250V) ⚠F904 ———— ⚠T902 1-427-931-11 TRANSFORMER, POWER

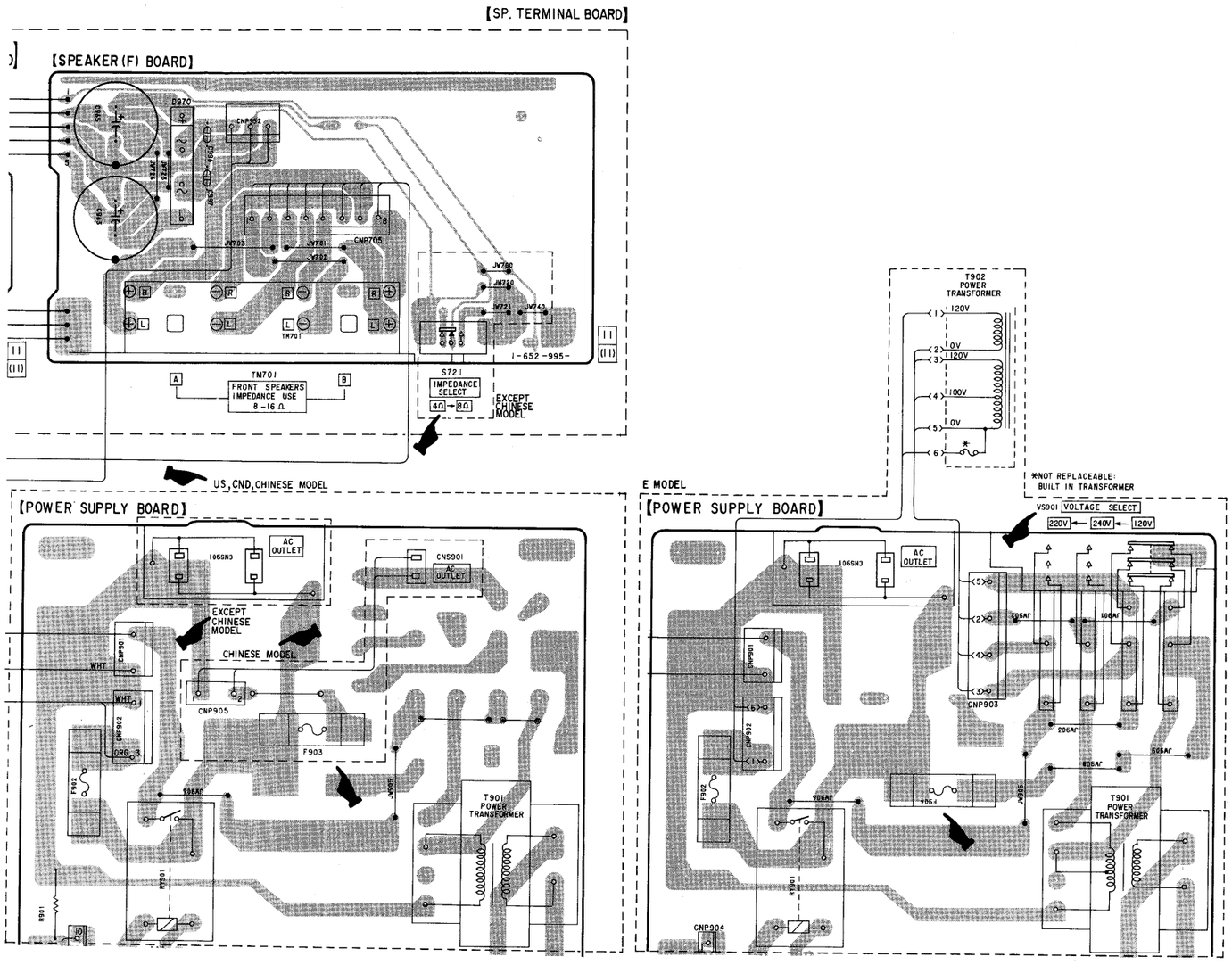
SCHEMATIC DIAGRAM (See page 27, 28)

☛ : Difference portion



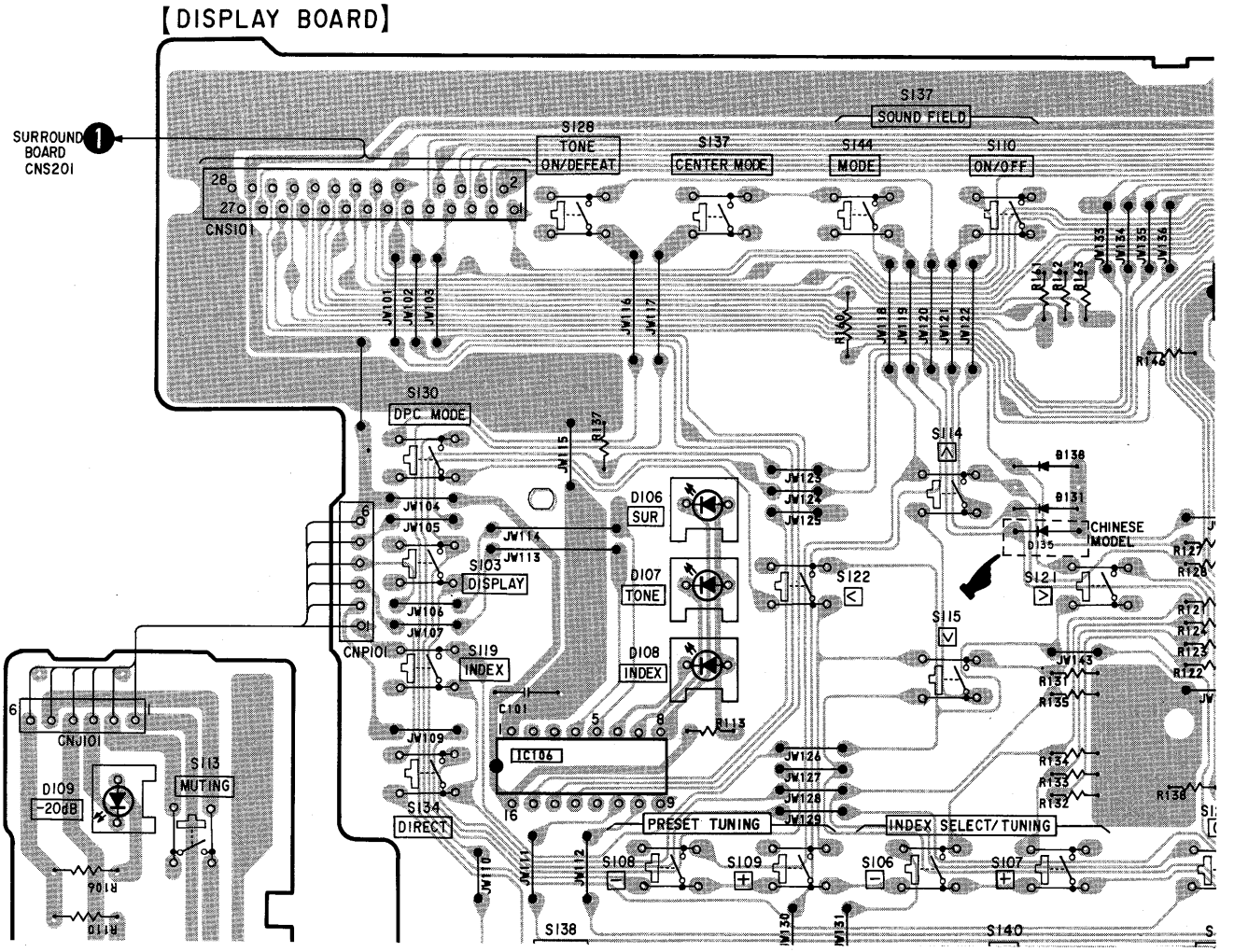
PRINTED WIRING BOARD (See page 32, 33)

☛ : Difference portion



PRINTED WIRING BOARD (See page 34, 35)

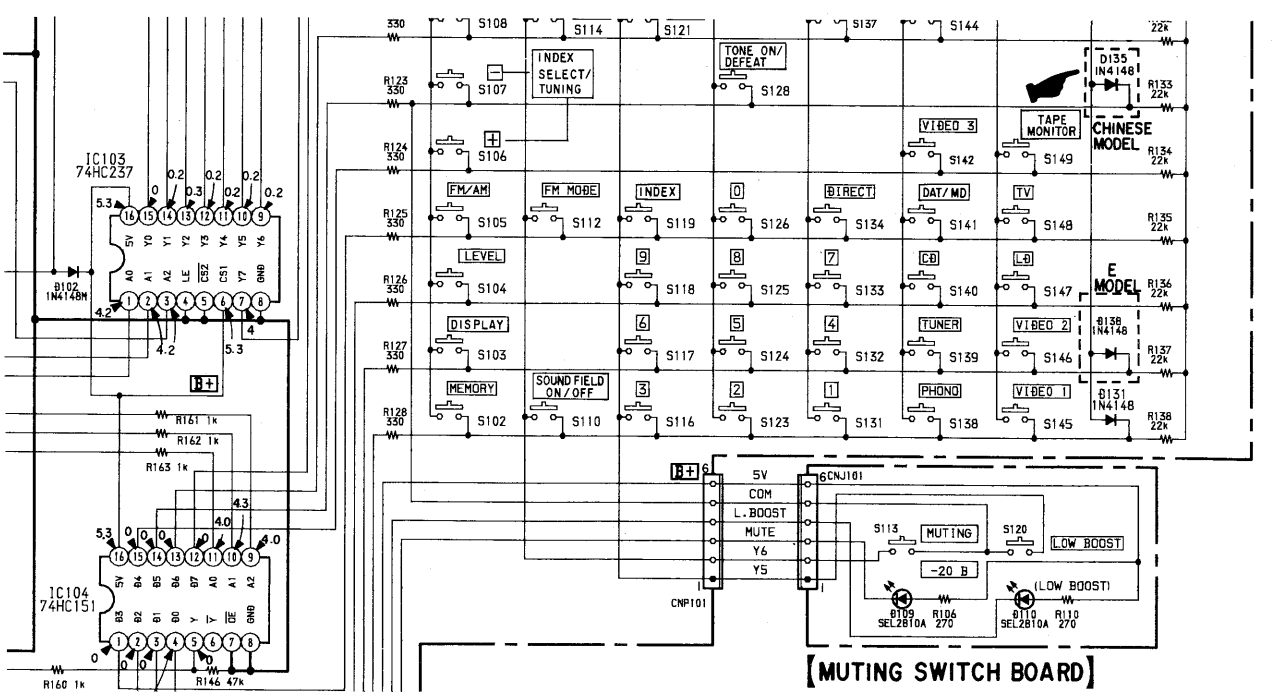
☛: Difference portion



SCHEMATIC DIAGRAM (See page 38)

☛: Difference portion

【DISPLAY BOARD】



3. Circuit and Parts changed (For Japan production)

Change of parts for Japan production.

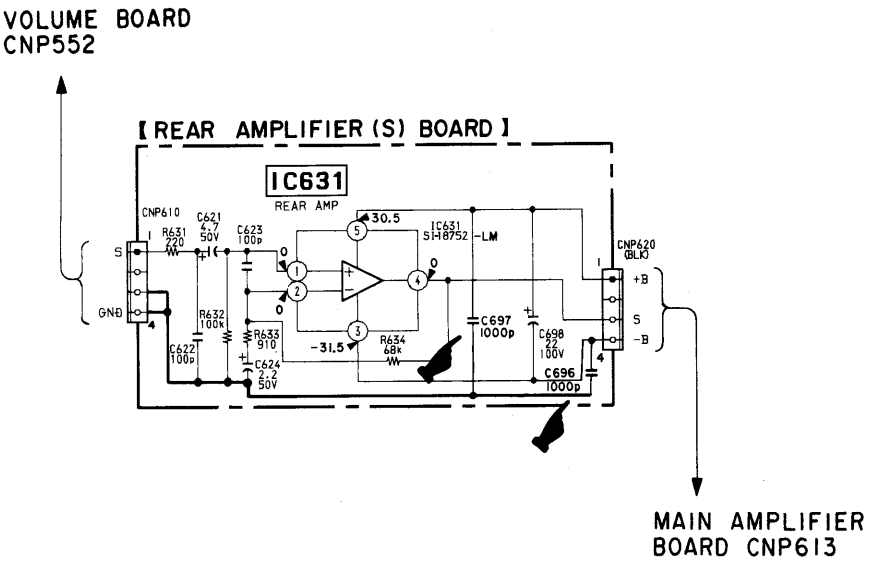
Page	FORMER					NEW				
	Ref. No.	Part No.	Description			Ref. No.	Part No.	Description		
43	13	X-4942-706-1	FOOT (58175) ASSY			13	4-956-885-01	FOOT (F58175S2W)		
46			** AUDIO INPUT BOARD **					** AUDIO INPUT BOARD **		
	C502	1-124-927-11	ELECT	4.7uF	20% 100V	C502	1-126-963-11	ELECT	4.7uF	20% 50V
	C552	1-124-927-11	ELECT	4.7uF	20% 100V	C552	1-126-963-11	ELECT	4.7uF	20% 50V
47			** DISPLAY BOARD **					** DISPLAY BOARD **		
	C101	1-161-379-00	CERAMIC	0.01uF	20% 25V	C101	1-162-306-11	CERAMIC	0.01uF	30% 16V
	C104	1-124-477-11	ELECT	47uF	20% 25V	C104	1-104-664-11	ELECT	47uF	20% 16V
	C105	1-161-379-00	CERAMIC	0.01uF	20% 25V	C105	1-162-306-11	CERAMIC	0.01uF	30% 16V
	C110	1-161-379-00	CERAMIC	0.01uF	20% 25V	C110	1-162-306-11	CERAMIC	0.01uF	30% 16V
48	R109	1-247-887-00	CARBON	220K	5% 1/4W	R109	1-249-441-11	CARBON	100K	5% 1/4W
49			** MAIN AMPLIFIER BOARD **					** MAIN AMPLIFIER BOARD **		
	C651	1-124-927-11	ELECT	4.7uF	20% 100V	C651	1-126-963-11	ELECT	4.7uF	20% 50V
	C652	1-164-079-11	CERAMIC	330PF	10% 50V	C652	1-102-112-00	CERAMIC	330PF	10% 50V
	C657	1-164-040-11	CERAMIC	4PF	0.25PF 50V	C657	1-102-937-00	CERAMIC	4PF	0.25PF 50V
	C701	1-124-927-11	ELECT	4.7uF	20% 100V	C701	1-126-963-11	ELECT	4.7uF	20% 50V
	C702	1-164-079-11	CERAMIC	330PF	10% 50V	C702	1-102-112-00	CERAMIC	330PF	10% 50V
	C707	1-164-040-11	CERAMIC	4PF	0.25PF 50V	C707	1-102-937-00	CERAMIC	4PF	0.25PF 50V
	C751	1-124-927-11	ELECT	4.7uF	20% 100V	C751	1-126-963-11	ELECT	4.7uF	20% 50V
	C752	1-164-079-11	CERAMIC	330PF	10% 50V	C752	1-102-112-00	CERAMIC	330PF	10% 50V
	C757	1-164-040-11	CERAMIC	4PF	0.25PF 50V	C757	1-102-937-00	CERAMIC	4PF	0.25PF 50V
	IC651	8-749-010-16	IC	STK350-130A		IC651	8-749-011-16	IC	STK350-230	
50	⚠R747	1-249-415-11	CARBON	680	5% 1/4W F	⚠R747	1-249-405-11	CARBON	100	5% 1/4W F
	⚠R748	1-249-415-11	CARBON	680	5% 1/4W F					
51			** POWER SUPPLY BOARD **					** POWER SUPPLY BOARD **		
	C953	1-164-073-11	CERAMIC	100PF	10% 50V	C953	1-102-106-00	CERAMIC	100PF	10% 50V
52			** REAR AMPLIFIER (S) BOARD **					** REAR AMPLIFIER (S) BOARD **		
	C621	1-124-927-11	ELECT	4.7uF	20% 100V	C621	1-126-963-11	ELECT	4.7uF	20% 50V
	C622	1-164-073-11	CERAMIC	100PF	10% 50V	C622	1-102-106-00	CERAMIC	100PF	10% 50V
	C623	1-164-073-11	CERAMIC	100PF	10% 50V	C623	1-102-106-00	CERAMIC	100PF	10% 50V
						C696	1-102-074-00	CERAMIC	0.001uF	10% 50V
						C697	1-102-074-00	CERAMIC	0.001uF	10% 50V
	C699	1-124-929-11	ELECT	22uF	20% 100V					
	IC631	8-759-295-87	IC	SI-18752-LM		IC631	8-759-502-33	IC	SI-18752	
			** SP. TERMINAL BOARD, COMPLETE **					** SP. TERMINAL BOARD **		
	⚠R691	1-249-415-11	CARBON	680	5% 1/4W F	⚠R691	1-249-405-11	CARBON	100	5% 1/4W F
	⚠R692	1-249-415-11	CARBON	680	5% 1/4W F					
	⚠R693	1-249-416-11	CARBON	820	5% 1/4W F	⚠R693	1-249-407-11	CARBON	150	5% 1/4W F
	⚠R694	1-249-416-11	CARBON	820	5% 1/4W F					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Page	FORMER					NEW				
	Ref.No.	Part No.	Description			Ref.No.	Part No.	Description		
53			** SURROUND BOARD **					** SURROUND BOARD **		
	C201	1-161-379-00	CERAMIC 0.01uF	20%	25V	C201	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C202	1-124-477-11	ELECT 47uF	20%	25V	C202	1-104-664-11	ELECT 47uF	20%	16V
	C203	1-161-379-00	CERAMIC 0.01uF	20%	25V	C203	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C207	1-161-379-00	CERAMIC 0.01uF	20%	25V	C207	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C209	1-161-379-00	CERAMIC 0.01uF	20%	25V	C209	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C299	1-161-379-00	CERAMIC 0.01uF	20%	25V	C299	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C310	1-124-927-11	ELECT 4.7uF	20%	100V	C310	1-126-963-11	ELECT 4.7uF	20%	50V
	C312	1-161-379-00	CERAMIC 0.01uF	20%	25V	C312	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C322	1-124-927-11	ELECT 4.7uF	20%	100V	C322	1-126-963-11	ELECT 4.7uF	20%	50V
	C328	1-124-927-11	ELECT 4.7uF	20%	100V	C328	1-126-963-11	ELECT 4.7uF	20%	50V
	C330	1-124-927-11	ELECT 4.7uF	20%	100V	C330	1-126-963-11	ELECT 4.7uF	20%	50V
	C335	1-136-161-00	MYLAR 0.0047uF	5%	50V	C335	1-136-161-00	MYLAR 0.047uF	5%	50V
	C347	1-124-927-11	ELECT 4.7uF	20%	100V	C347	1-126-963-11	ELECT 4.7uF	20%	50V
	C349	1-124-927-11	ELECT 4.7uF	20%	100V	C349	1-126-963-11	ELECT 4.7uF	20%	50V
	C358	1-161-379-00	CERAMIC 0.01uF	20%	25V	C358	1-162-306-11	CERAMIC 0.01uF	30%	16V
	C359	1-124-927-11	ELECT 4.7uF	20%	100V	C359	1-126-963-11	ELECT 4.7uF	20%	50V
	C360	1-124-927-11	ELECT 4.7uF	20%	100V	C360	1-126-963-11	ELECT 4.7uF	20%	50V
54	C406	1-124-927-11	ELECT 4.7uF	20%	100V	C406	1-126-963-11	ELECT 4.7uF	20%	50V
	C408	1-124-477-11	ELECT 47uF	20%	25V	C408	1-104-664-11	ELECT 47uF	20%	16V
	C410	1-124-477-11	ELECT 47uF	20%	25V	C410	1-104-664-11	ELECT 47uF	20%	16V
	C416	1-124-927-11	ELECT 4.7uF	20%	100V	C416	1-126-963-11	ELECT 4.7uF	20%	50V
	C456	1-124-927-11	ELECT 4.7uF	20%	100V	C456	1-126-963-11	ELECT 4.7uF	20%	50V
	C458	1-124-477-11	ELECT 47uF	20%	25V	C458	1-104-664-11	ELECT 47uF	20%	16V
	C460	1-124-477-11	ELECT 47uF	20%	25V	C460	1-104-664-11	ELECT 47uF	20%	16V
	C822	1-124-477-11	ELECT 47uF	20%	25V	C822	1-104-664-11	ELECT 47uF	20%	16
55	R822	1-247-811-31	CARBON 150	5%	1/4W	R822	1-249-407-11	CARBON 150	5%	1/4W F
56			** TRANSFORMER TERMINAL (2) BOARD **					** TRANSFORMER TERMINAL (2) BOARD **		
	⚠R980	1-249-413-11	CARBON 470	5%	1/4W F	⚠R980	1-249-407-11	CARBON 150	5%	1/4W F
	⚠R981	1-249-413-11	CARBON 470	5%	1/4W F					
	⚠R982	1-249-413-11	CARBON 470	5%	1/4W F(CND)	⚠R982	1-249-407-11	CARBON 150	5%	1/4W F(CND)
	⚠R983	1-249-413-11	CARBON 470	5%	1/4W F(CND)					
			** VIDEO BOARD **					** VIDEO BOARD **		
	C251	1-124-472-11	ELECT 470uF	20%	10V	C251	1-126-941-11	ELECT 470uF	20%	6.3V
	C252	1-124-927-11	ELECT 4.7uF	20%	100V	C252	1-126-963-11	ELECT 4.7uF	20%	50V
	C253	1-124-472-11	ELECT 470uF	20%	10V	C253	1-126-941-11	ELECT 470uF	20%	6.3V
	C254	1-124-927-11	ELECT 4.7uF	20%	100V	C254	1-126-963-11	ELECT 4.7uF	20%	50V
	C255	1-124-472-11	ELECT 470uF	20%	10V	C255	1-126-941-11	ELECT 470uF	20%	6.3V
	C256	1-124-927-11	ELECT 4.7uF	20%	100V	C256	1-126-963-11	ELECT 4.7uF	20%	50V
	C257	1-124-927-11	ELECT 4.7uF	20%	100V	C257	1-126-963-11	ELECT 4.7uF	20%	50V
	C259	1-124-927-11	ELECT 4.7uF	20%	100V	C259	1-126-963-11	ELECT 4.7uF	20%	50V
	C278	1-124-927-11	ELECT 4.7uF	20%	100V	C278	1-126-963-11	ELECT 4.7uF	20%	50V
57	#2	7-682-547-09	SCREW +BVTT 3X6 (S)			#2	7-685-871-01	SCREW +BVTT 3X6 (S)		
	#4	7-682-561-04	SCREW +BVTT 4X8 (S)			#4	4-381-962-11	SCREW +BVTT 4X8 (S)		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

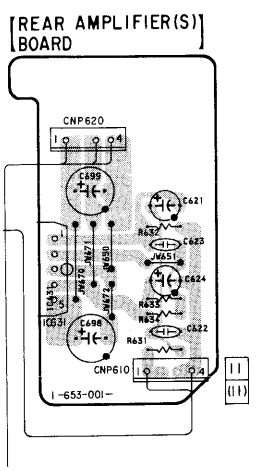
SCHEMATIC DIAGRAM (See page 25)
☛: Added portion
Lacation : K–8 to K–10



PRINTED WIRING BOARD (See page 31)
☛: Added portion
Lacation : C–19 to C–20

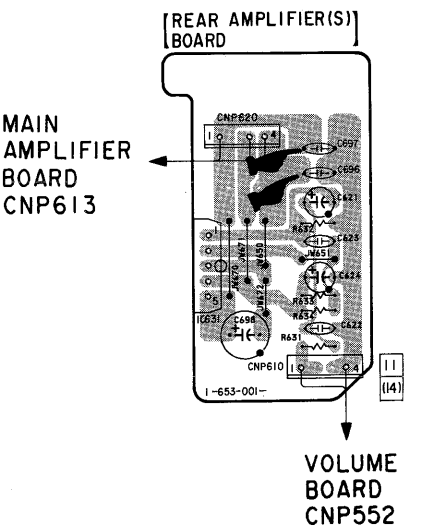
【REAR AMPLIFIER (S) BOARD】

Suffix No. | 11 | (11)



【REAR AMPLIFIER (S) BOARD】

Suffix No. | 11 | (14)



4. CORRECTION

• Correct your service manual as shown below.

Page	INCORRECT	CORRECT
44•56	Ref.No. Part No. Description * 1-652-992-11 VIDEO BOARD **********	Ref.No. Part No. Description * A-4371-335-A VIDEO INPUT BOARD, COMPLETE **********

9-959-654-81

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95J097037-1
Printed in Singapore
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Published by Home A&V Products Div.
Quality Engineering Dept.